

Medicare Hospital

INFORMATION

Report

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MEDICARE HOSPITAL INFORMATION

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Volume 19

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KENTUCKY

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U.S. Department of Health and Human Services

WILLIAM TOBY

*Acting Administrator*

Health Care Financing Administration

# STATES BY VOLUME

| VOL | STATE                             | VOL | STATE                         |
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## FOREWORD

The mission of the Health Care Financing Administration (HCFA) is to promote the timely delivery of appropriate, quality health care to the nation's aged, disabled, and poor. The agency must also ensure that beneficiaries are aware of the services for which they are eligible, that those services are accessible, and that agency policies and actions promote efficiency and quality within the total health care delivery system.

To that end, the annual release of the Medicare Hospital Information report is a key element in our continuing efforts to improve the effectiveness of medical practice and the quality of care provided to Medicare beneficiaries. It is also an important step in helping beneficiaries make more informed health care decisions.

The information in this release is not intended as a direct measure of quality of care. It is best used as a "screening tool"—that is, to identify potential problems for further review and, in consultation with medical staff, to evaluate a hospital's strengths and weaknesses. Thus, we believe that consumers can use this information to ask questions of their physicians, rather than reach judgments about the quality of care in a particular hospital. We also expect this information to be used by hospital administrators, physicians, peer review organizations, State survey and certification agencies, and researchers.

This publication presents information to answer the question "What is the actual mortality rate within a certain period of time for each hospital compared to the rate that would have been predicted, given what we know about the characteristics of the patients admitted?" Our basic approach to analyzing hospital mortality information has remained unchanged for the past five years; however, since the last publication of mortality information in May 1991, we have made some significant changes both in our methodology and in the way we display the results of our analysis. The four principal changes in the 1992 report are:

- A graphic presentation of the predicted and observed mortality rates for most hospitals for "All Causes" for Federal fiscal years 1988-1990 at 30, 90, and 180 days;
- The addition of information on certain variables that we use in computing the predicted mortality rates for each hospital;
- The addition of information on the geographic origin of each hospital's patients; and

- A comparison of the average length of stay in each hospital with the average for the State and Nation.

These refinements should make this information an even more valuable educational tool to help improve the quality of care in hospitals. The changes were reviewed by a panel of outside experts. The methodology used to calculate the observed mortality rate, the predicted mortality rate, and the standard deviation are briefly described in the Technical Information section of the Introduction to this volume and in more detail in the Technical Supplement (Volume 55).

We acknowledge the assistance we have received from the American Hospital Association—not only for providing the information detailing selected hospital characteristics, but also for alerting its members to the importance of this information. We are also grateful to the personnel in each hospital who took the time to review the data thoroughly and to provide us with comments and suggestions. As before, we have published individual hospitals' comments in their respective State volumes. Over the years, these communications have helped to improve and refine the information included in this publication.

HCFA is committed to improving the Medicare Hospital Information report. To that end, we are continuing to work with representatives of hospital, consumer, employer and other organizations to make this annual report as useful as possible for all consumers.

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Hospital Comments





# INTRODUCTION

The Medicare Hospital Information report contains information on acute care hospitals that treated Medicare patients discharged in Federal fiscal year (FY) 1990 (October 1, 1989—September 30, 1990).

This year's publication set consists of 54 State volumes and a Technical Supplement (Volume 55). There is one volume per State, except that California and Texas have two volumes each, Hawaii is combined with American Samoa and Guam, and Puerto Rico and the Virgin Islands are combined together in one volume.

Each hospital's two summary data pages are arranged alphabetically by hospital name in each State volume. These data pages consist of:

- The hospital's FY 1990 Medicare hospital mortality rates;
- A graphic presentation of the predicted and observed mortality rates for **most** hospitals for "All Causes" for FYs 1988—1990 at 30, 90, and 180 days;
- The FY 1990 values for selected explanatory factors used to predict the mortality rates;
- Origins and lengths of stays of Medicare admissions; and
- Hospital characteristics, such as the number of beds and other characteristics, which we obtained from data contained in the American Hospital Association's (AHA) 1990 Annual Survey of Hospitals files or, when such information was not available from the AHA file, the Health Care Financing Administration's (HCFA) Online Survey, Certification and Reporting System (OSCAR) file.

*Please note that the information regarding origins and lengths of stays and hospital characteristics are presented strictly for information purposes only. They were not used to calculate the hospital's predicted mortality rates.*

Toward the end of each volume, we include both State and national mortality rates developed by our analysis, as well as the comments we received from individual hospitals.

## DESCRIPTION OF MORTALITY INFORMATION

The mortality rates at a given hospital may reflect, among other factors, the age, sex, diagnoses, and severity of illness of patients admitted to that hospital, as well as the quality of care they received. Factors affecting health and the probability of death vary among the patient populations served by individual hospitals. Consequently, the mortality rates in different patient populations vary considerably.

These latest analyses of the mortality rates associated with Medicare hospitalizations are similar to those carried out in the four prior years. Only one hospitalization for every patient was used. As in last year's analysis, when a patient had multiple hospitalizations during the fiscal year, one stay was selected at random to be analyzed. We believe that the use of the randomly selected admission provides a better representation of a typical hospital admission and permits us to calculate mortality rates more nearly like those the hospital itself would calculate for its patients.

Although we publish data only on deaths which occur within 180 days of admission to the hospital, for purposes of analysis our methodology actually considers deaths which occur any time within 365 days of admission (with the exception that no date of death later than April 1, 1991 is used). This is part of the formula which assesses the long-term risk of mortality. With this approach, information about the early and later results of the hospitalization is provided. This is important because diseases evolve with different time courses, and treatments may have different short- and long-term effects. The choice of at least 180 days allows substantial followup consistent with timely reporting of HCFA data.

We again analyzed the data on a fiscal year, rather than on a calendar year, basis because it allows us to report on recent hospitalizations. Also, new Medicare rules are often instituted on a fiscal year basis.

For each hospital, mortality rates are presented for overall Medicare patient mortality and for eight medical conditions and nine procedures. The information consists of the number of Medicare patients; the observed or actual mortality rate (OBS); the predicted mortality rate (PRED), given the mix of patients; and a standard deviation (SD), a measure of the uncertainty of the predicted rate.

The following information will be helpful when reviewing specific information for any given hospital.



## *Number Of Cases*

This is the number of individual Medicare beneficiaries whose discharge in a fiscal year from the short-term, acute care hospital listed was selected for analysis. The total number of cases randomly selected for each hospital is presented under the category "All Causes." The eight medical condition and nine surgical procedure categories are subgroupings drawn from the "All Causes" selection. Although a particular patient may appear in only one of the eight medical condition categories, that same patient may also appear in one or more of the nine surgical procedure categories. Similarly, a patient may appear in one or more of the nine surgical procedure categories, even though he or she was not included in any of the eight medical condition categories.

The categories chosen for display represent HCFA's interpretation of the categories judged to be important by various outside advisors including the Institute of Medicine. The listed condition and procedure categories do not cover the reason for admission of all the hospitalized Medicare patients in this study. (The ICD-9-CM codes included in each condition and procedure category appear in Table 1 following this Introduction section.)

These conditions and procedures represent the causes for the hospital admission and/or surgical episodes during that stay; they do not necessarily represent the cause of death. HCFA does not have access to cause of death information.

## *Observed Mortality Rate (OBS)*

The observed mortality rate for each category is the percentage of each acute care hospital's selected Medicare patients who died within 30, 90, or 180 days of the selected admission. This rate does **not** represent the percentage whose death was caused by a particular condition or procedure.

The percentage is rounded to the nearest one-tenth of one percent. Both inhospital deaths and deaths occurring after discharge but within 30, 90, or 180 days of admission are included. For example, if a hospital had 1,000 patients included in the "All Causes" category and 124 of these patients died within 30 days of the selected admission, the 30-day observed mortality rate would be 12.4 percent; if an additional 17 patients died more than 30 but less than 91 days after admission, the 90-day observed mortality rate would be 14.1 percent; and if an additional 13 patients died more than 90 but less than 181 days after admission, the 180-day observed mortality rate would be 15.4 percent.

It is important to note that the observed mortality rate is cumulative; e.g., the 90-day observed mortality rate includes all deaths which occur within 30 days of admission, as well as those occurring more than 30 and less than 91 days after admission.

### ***Predicted Mortality Rate (PRED)***

The predicted mortality rate for each hospital's patients is derived in part by determining, based on national experience, the contribution to the probability of dying associated with various patient characteristics such as:

- Principal diagnosis (grouped into 23 analytical risk categories),
- Age,
- Sex,
- Previous hospital admissions within the prior six months,
- Admission source (e.g., physician reference, skilled nursing facility reference),
- Admission type (e.g., elective or emergency), and
- The presence of up to seven comorbid conditions—cancer, chronic cardiovascular disease, chronic renal disease, chronic liver disease, chronic pulmonary disease, cerebrovascular degeneration, and chronic diabetes. A list of the ICD-9-CM codes defining the comorbid conditions is in Table 2 following this Introduction section.

### ***Standard Deviation (SD)***

The standard deviation is a tool to gauge the extent to which the difference between the observed and predicted mortality rate is meaningful. In general, the greater the difference between the two rates, the greater the probability that the difference represents an actual variation from what would be expected in view of the national experience. The less chance that the difference between the PRED and the OBS can be attributed to statistical variability, the more grounds for possible concern about the institution's performance.

Information on how to use the SD to construct prediction intervals for use in assessing the real difference between the OBS and the PRED is included in the Technical Information section of this Introduction. The precision and interpretability of the estimates are weaker when there are no deaths or 50 or fewer cases in a particular category being analyzed. Thus, for these instances, dashes ("---") are placed in the SD column.



## **OBSERVED MORTALITY RATE AND PREDICTED RANGE FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES**

Also in this year's report, we have presented graphs that display the information for most hospitals described above for FYs 1988 and 1989, as well as FY 1990. (In particular, these graphs could not be computed for hospitals that had 50 or fewer cases or no deaths in FYs 1988, 1989, or 1990). In constructing the graphs, we used 2 times the standard deviation to approximate a 95 percent prediction interval. The observed mortality is shown as a dot (•). The predicted mortality is shown at the middle of a range of mortality rates. The bottom of the range is the predicted mortality minus twice the standard deviation, and the top of the range represents the predicted mortality plus twice the standard deviation. The graphs for FY 1988 and FY 1989 are based on new random samples and new computations for this year's report. Thus, the calculations for some hospitals for FY 1988 and FY 1989 may be different from previous releases, because we are including more current data in this year's report.

## **FY 1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES**

This year's report includes the FY 1990 average at each hospital of many of the explanatory factors used to predict that hospital's mortality rates. This information provides a profile of the patients used in the analysis and should help to identify possible systematic coding errors in the claims data used to calculate the mortality rates. These percentages are derived from the patients included in the sample and should be applied to the total number of cases listed in "All Causes." It is important to note that neither the admission sources/types nor the comorbidities categories are mutually exclusive. For example, a patient could be both "referred by his personal physician" and "admitted for elective procedure." Similarly, a patient could have secondary diagnoses of both cancer and diabetes.

## **INFORMATION SOURCES AND NOTES**

We believe that when the mortality rate information is properly understood and applied, it can be very useful; it can also be misleading if it is interpreted incorrectly. The information simply describes one of several possible outcomes at a hospital—postadmission mortality for Medicare beneficiaries.

Mortality information is not necessarily representative of a hospital's total performance in all aspects of patient care. Individual hospitals may have very good reasons for their rates being higher than the rates predicted by the HCFA model. For example, one hospital might have different death rates than another because its patient mix is not fully accounted for by the model.

Accordingly, we offered each hospital the opportunity to review their specific information and to provide comments to HCFA and the public, and we included those comments that were received timely at the end of this volume. Users should read the discussions about the uses and limitations of the mortality information found on page xiii, as well as any comments a hospital may have provided.

### *Hospitals In The Analysis*

The hospitals included in this analysis are participating in Medicare as short-term, acute care facilities—all have a zero in the third position of their Medicare provider number. All other hospitals—those with something other than a zero in the third position of their provider number, such as rehabilitation facilities or psychiatric institutions—were excluded. This year, as in the past two years, we have also excluded hospices.

In some cases, we have included data for hospitals that closed, changed ownership, or changed management either during or subsequent to FY 1990. Our data included for those institutions reflects the situation as it existed at the time the hospitalizations analyzed occurred.

### *Data Sources*

This report is based primarily on Medicare hospital billing information for Federal fiscal years 1988, 1989, and 1990. While the principal source of the data for the analysis was the HCFA-maintained Medicare Provider Analysis and Review (MEDPAR) file, which contains information about each Medicare hospitalization, some of the information about beneficiaries, such as date of death, was obtained from the Social Security Administration. Hospitals submit bills to HCFA's fiscal intermediaries (which handle claims for the inpatient care provided to Medicare beneficiaries) which, in turn, submit this information to HCFA. The file is updated on a quarterly basis. Our analysis was based on information available following the June 1991 update of the MEDPAR file. It is estimated that by that time (nine months after the close of the fiscal year), 98 percent of all Medicare discharges in FY 1990 are included in the file.

### *Possible Limitations Of The Data*

In any large-scale data base, such as the one dealing with Medicare hospitalizations, there will be gaps or inaccuracies. For example, last year some hospitals had not accurately reported the source or type of admission, and thus erroneous information was included in the analysis for those hospitals. However, the fact that the files contain information on about 10 million hospital admissions to nearly 6,000 hospitals for each year provides some assurance that, for purposes of the statistical analysis conducted here, the information that might be



missing or inaccurate is such a small portion of the total that it would have little effect on the results for national estimates. Nevertheless, it may substantially affect an individual hospital if it were the source of the inaccurate information.

While we feel that the information used in this analysis is thorough and complete, there are a few points to keep in mind as you review the mortality information.

The information used is billing data; it is only as good as the information submitted by hospitals as part of the payment process. Although there is always a possibility that coding errors are included, we assume that, given the link to payment, hospitals have an incentive to submit bills accurately and promptly. We do know, however, that some hospitals submitted incomplete or erroneous data.

For example, following last year's public release of the hospital mortality data, several hospitals wrote to HCFA indicating that they had submitted incorrect data. Furthermore, they stated that if they had given us the correct information, their predicted mortality rates would have been higher than those presented in HCFA's report. Therefore, in this year's report we have annotated those hospitals' data pages with a footnote stating: "This hospital says that it submitted inaccurate data to Medicare and claims that its predicted mortality rate should be higher than that presented above." At this point, however, HCFA cannot confirm the validity of those hospitals' claims. The analysis results might very well be different if the data on which they were based were submitted accurately by those hospitals.

In our previous analysis of mortality data, we discovered that some States had zero admissions from a skilled nursing facility. While some of these problems were corrected on the MEDPAR files used for this analysis, at the time this study was initiated we found empirical evidence that some of the files still contained suspect information. The suspect data were identified by noting those months (date of discharge) and fiscal intermediaries for which the type and source of admission fields appeared to be interchanged. Based on our findings, we reversed these fields to at least partially correct the remaining discrepancies. The following list shows the specific instances for which the fields were reversed for this analysis.

#### TYPE AND SOURCE OF ADMISSION FLIPPED

| <u>FI No.</u> | <u>FI Name</u>         | <u>Dates</u>        |
|---------------|------------------------|---------------------|
| 00030         | Arizona Blue Cross     | 10/01/86 — 12/31/88 |
| 00080         | Maryland Blue Cross/DC | 06/01/87 — 09/30/87 |
| 00190         | Maryland Blue Cross    | 06/22/87 — 12/31/88 |
| 00400         | Texas Blue Cross       | 12/07/87 — 12/31/88 |

## HOW TO USE THIS INFORMATION

There are several key points to remember about the use of this information. **First, it is important to understand that the difference between the hospitals' mortality rates and the predicted rates in the tables in this report may not be a direct measure of the quality of care rendered in the hospitals.**

Second, the usefulness of this information depends upon the accuracy with which mortality rates can be predicted. We do not currently have any direct measurement tool with which we can fully adjust for severity of patient illness differences among hospitals. For instance, two hospitals may have very different death rates for patients admitted for stroke, even after we have adjusted for age, sex, and several other factors. This might happen because one hospital's stroke patients may consist of a significant number who are admitted in a coma (and are thus more likely to die), whereas another hospital's patient population may represent a broader spectrum of patients with cerebrovascular problems, or because these two hospitals, in fact, do provide different levels of quality of care. In addition, other factors affecting the probability of death in a particular case (e.g., family status/support, overall health status of the patient, etc.) are not included in the predictive model because information on them is not readily available.

Nevertheless, we believe that the information presented in this publication is an important contribution to the health care community and should be helpful to a wide range of individuals and organizations including consumers, hospital administrators, physicians, PROs, and researchers.

### *Use By Consumers — Some Key Questions*

Consumers should read carefully the explanations of the uses and limitations of the information. Listed below are some questions that we recommend a consumer think about before choosing a hospital. Please keep in mind that this is not a comprehensive list, but it should serve to illustrate the types of questions that are important to consider.

- Why are the hospital's observed mortality rates for "All Causes" consistently and significantly above the predicted rates for FY 1990?
- Why are the hospital's observed mortality rates for the condition for which I need treatment or the procedure I will undergo consistently and significantly above the predicted rates for FY 1990?
- How does this hospital's pattern of mortality compare with that of other hospitals in the State and Nation?



- Is the number of cases too small to present a satisfactory picture of the hospital?
- Does the hospital treat a large number of cases in the category for which I need treatment?
- Does the hospital treat a large number of patients who have several co-existing illnesses or who otherwise are likely to be "sicker" than average?

### *Other Users Of This Publication*

Among other users of this publication, we expect that the hospital administrator (in consultation with medical staff) will find the information most useful as a screening tool to evaluate a hospital's strengths and weaknesses. We know that some hospitals and their medical staffs, using established and newly emerging quality assessment techniques, are seeking information that will result in improved health care delivery.

### *Outside Assistance In Developing This Publication*

The development and presentation of the Medicare Hospital Information report continues to be an important part of HCFA's responsibilities in the health care community. To make the information as accurate and useful as possible, over the past several years we have discussed the theoretical framework and statistical approach with a number of nationally recognized technical experts in appropriate fields. Based on their recommendations, we believe that the models used in these analyses continue to be reasonable and appropriate.

In the past, we have conducted validation studies of our methodology. In general, these studies have found correlation between poor quality care and hospitals whose observed mortality rates significantly exceed the rates that would have been predicted. However, we have also found that detailed clinical data which more thoroughly characterize the severity of patient's illness, while they do not materially affect results describing the general pattern of mortality, do, in specific instances, alter our assessment of the comparison of the observed to the predicted mortality rates.

The format for presentation, the process for sharing the information with individual hospitals, and the statistical methodology have been discussed at various meetings with leaders of organizations representing Medicare beneficiaries, physicians, and hospitals. Also, we have spent many months reviewing the comments received from the hospitals regarding their patient-specific data for earlier years and our previous mortality information reports. Many suggestions from these sources have been incorporated into this report.



We have carefully investigated comments from individual hospitals on apparent discrepancies or errors generated in previous years. These discrepancies rarely had an effect on a hospital's overall mortality rate. Most of these instances fell into the following two broad categories.

- **Inaccurate Date of Death** — We found that inpatient billing coding errors (e.g., a hospital bill indicating that the patient's status at time of discharge was “expired” when the patient had, in fact, left the hospital alive) created many of these errors. We now have mechanisms in place that allow a continuous update of HCFA's master file, thereby enabling us to make corrections.
- **Discrepant Case Counts** — Our analysis counts only one acute care discharge in a fiscal year; normally, hospitals count each discharge. Thus, a patient admitted three times in a year would count three times for the hospital, but only once for the purpose of analyzing Medicare hospital mortality data presented in this report.

*We believe it is important for consumers of health care to have access to as much information about hospitals as possible when making health care choices. Along with hospital characteristics information, we have added this year information about the origin and length of stay of Medicare admissions. This information is presented for comparative purposes only and was not used in calculating a hospital's predicted mortality rates. These data were not part of the analyses, and any errors or discrepancies in them do not affect the predicted mortality rates.*

## ORIGIN OF MEDICARE ADMISSIONS

Data on the geographic origin of each hospital's patients are presented in this year's report. We obtained from the Health Insurance Master file the State and county of residence for each Medicare beneficiary discharged from a Medicare-certified, acute care hospital during FY 1990. We then compared that information with the location of the hospital to determine the percentage of all discharges where the patient lived within the same city/county as the hospital location, within the State where the hospital is located, or outside the State. The percentages are derived by dividing the number of discharges of beneficiaries in a geographic category by the total number of Medicare discharges from the hospital. Please note that these are percentages of total Medicare discharges, not of the mortality sample alone.

## MEDICARE AVERAGE LENGTH OF STAY

We obtained from the MEDPAR file the total days of care—both Medicare covered and noncovered—and divided that total by the number of discharges from each hospital. Total, rather than covered, days were used because, under the Prospective Payment System (PPS), if a Medicare patient has at least one day of hospital coverage available to him in the current spell of illness, the hospital will be paid the full diagnosis related group (DRG) amount plus any approved outlier amount, regardless of the number of days actually used.

Example: Hospital A had 2,513 Medicare discharges with a total of 24,379 days.

Calculation: 
$$\frac{24,379}{2,513} = 9.7 \text{ days}$$

The Medicare average length of stay is 9.7 days.

## HOSPITAL CHARACTERISTICS

As noted previously, we have again included information on selected hospital characteristics such as the number of beds, occupancy rate, ownership, staffing, and specialty services. This information was obtained from the American Hospital Association's (AHA) 1990 Annual Survey of Hospitals, with the exception of the case mix index (CMI), which was derived from HCFA billing data. This file consists of information voluntarily reported by hospitals to the AHA. In instances where AHA data were unavailable, for example for hospitals that did not respond to the AHA survey, we derived the information from HCFA's Online Survey, Certification and Reporting system (OSCAR). The hospital characteristics and the specific special services listed were selected with the concurrence of the AHA as being those most meaningful to the Medicare population. Information on these specific data elements follows.

### *AHA Definitions (except for CMI)*

**Survey and Year** — AHA 1990. Source is the American Hospital Association's 1990 Annual Survey of Hospital files.

### **Profile**

***Total beds (#)*** — Number of beds (including subacute beds), cribs, and pediatric and neonatal bassinets regularly maintained (set up, staffed, and ready for use) for inpatients as of the close of the reporting period; does not include bassinets for normal newborn infants.

***Occupancy rate (percent)*** — Ratio of average daily census to the average number of beds (statistical beds) maintained during the 12-month reporting period. (NOTE: The number of these "statistical beds" may differ from the bed count at the close of the reporting period.)

***Ownership/control*** — State government, local government, district/authority, church, private nonprofit, private for profit, or Federal Government.

***Medicare discharges*** — The total number of inpatient discharges for Medicare patients for those hospitals selected for the mortality calculations, including all discharges for persons with more than one hospitalization during the year. (The mortality data include only one randomly selected discharge for each hospitalized enrollee. Therefore, this figure may reflect more discharges than the actual number of cases randomly selected for the mortality study.)



**Case mix index (CMI)** — A measure of the overall complexity of the Medicare cases treated by a given hospital compared to the complexity of the national average case mix. The CMI represents the relative costliness of each hospital's mix of cases compared to the national average mix of cases. A CMI of greater than one means that a hospital treats more complex cases than average. A CMI of less than one means that a hospital treats less complex cases than average. The CMI for each hospital is calculated on an annual basis. In this report, the CMI presented for each hospital is calculated based on its discharges in FY 1990.

A hospital's CMI is calculated by multiplying the number of cases in each DRG by the relative weight of that DRG, summing the products, and dividing the sum by the total number of cases for the year. For calculating the FY 1990 CMI, use the DRG relative weights published in the *Federal Register*, Volume 54, Number 169, pages 36468 ff., dated September 1, 1989.

## **Staffing (all AHA counts are as of 9/30/90)**

**Total number of physicians** — Total active and associate medical staff.

**Percent of physicians who are board-certified specialists** — Physicians who have passed an examination given by a medical specialty board and have been certified by that board as a specialist.

**Medical residents/interns** — Full-time equivalent (FTE) medical residents or interns.

**Registered nurses** — Full-time equivalent (FTE) registered nurses.

**Licensed practical nurses** — Full-time equivalent (FTE) licensed practical nurses.

## **Specialty Services**

**Burn Unit** — Provides more intensive care to severely burned patients than the usual acute nursing care provided in medical and surgical units. Beds must be set up and staffed in a unit specifically designated for this service.

**Cardiac Intensive Care** — Provides patient care of a more specialized nature than the usual medical and surgical care, on the basis of physicians' orders and approved nursing care plans. The unit is staffed with specially trained nursing personnel, and contains monitoring and specialized support or treatment equipment for patients who, because of heart seizure,

open-heart surgery, or other life-threatening conditions, require intensified, comprehensive observation and care. May include myocardial infarction, pulmonary care, and heart transplant units. Beds must be set up and staffed in a unit(s) specifically designated for this service.

***Comprehensive Geriatric*** — Provides diagnostic and evaluation services that determine elderly patients' long-term care needs. It includes the assessment of medical conditions, functional activities, and mental and emotional conditions, and incorporates these into a treatment plan which includes family and financial concerns as well as medical needs.

***Hospice Care*** — A program providing primarily medical relief of pain and support services to terminally ill patients and assistance to their families in adjusting to the patients' illness and death.

***Medical/Surgical Intensive Care*** — Provides nursing care to adult and/or pediatric patients of a more intensive nature than the usual medical, surgical, pediatric, and/or psychiatric care on the basis of physicians' orders and approved nursing care plans. Included are medical-surgical, pediatric, and psychiatric (isolation) units. These units are staffed with specially trained nursing personnel, and contain monitoring and specialized support equipment for patients who, because of shock, trauma, or life-threatening conditions, require intensified, comprehensive observation and care. These units may also include cardiac care when such services are not approved in a distinct cardiac care unit. This category is called "intensive care unit" in OSCAR.

***Organ/Tissue Transplant*** — The hospital has the necessary staff and equipment to perform the surgical removal of a viable human organ or tissue from a donor, either living or deceased, and the surgical grafting of the organ/tissue to a suitably evaluated and prepared patient.

***Other Intensive Care*** — Provides nursing care to adult and/or pediatric patients with a specialized disease or condition of a more intensive nature than the usual medical, surgical, pediatric, and/or psychiatric care on the basis of physicians' orders and approved nursing care plans. Examples reported include oncology or spinal cord injuries. These units are staffed with specially trained nursing personnel and contain monitoring and specialized support equipment appropriate for the patients' specialized conditions.

***Trauma Center*** — Provides emergency and specialized intensive care to critically injured patients.



## Other Specialty/Hospital-Based Services

***Alcohol/Drug*** — Hospital services for the medical care and/or rehabilitative treatment of outpatients whose primary diagnosis is alcoholism or other chemical dependency.

***Rehabilitation*** — A unit having designated beds and providing a comprehensive array of multidisciplinary medical rehabilitation services.

***Psychiatric*** — Care provided to emotionally disturbed, chronically mentally ill, mentally disordered, or other mentally incompetent patients on the basis of physicians' orders and approved nursing care plans. Beds must be set up and staffed in units specifically designated for this service.

***Medicare Swing Beds*** — The hospital is certified by Medicare to provide "swing bed" services; that is, some acute care beds can be used for skilled nursing facility type care in the hospital for Medicare purposes.

## OSCAR Definitions (except for CMI)

**Survey and Year** — HCFA, most recent year. Data were derived from the Online Survey, Certification and Reporting System (OSCAR).

## Profile

***Total beds (#)*** — Total number of operational beds eligible for Medicare payment.

***Ownership/control*** — Church; private, nonprofit; other nonprofit; proprietary; Federal Government; State government; local government; and hospital district or authority.

***Case mix index (CMI)*** — See definition shown in AHA "Profile" section.

## Staffing

***Medical residents/interns*** — Full-time equivalent (FTE) medical residents or interns.

***Registered nurses*** — Full-time equivalent (FTE) registered nurses.

***Licensed practical nurses*** — Full-time equivalent (FTE) licensed practical nurses.

## Specialty Services

**NOTE:** There are no specific definitions of specialty services in OSCAR. Characteristics are self-reported by each hospital at initial Medicare certification and recertification, and are generally understood to parallel the explicit AHA definitions (above). The AHA categories “comprehensive geriatric” and “other intensive care” are not available in OSCAR. However, they may be included in the OSCAR category of other specialty services (not shown in table).

**Coronary Care** — See definition shown in AHA “Specialty Services” section.

**Intensive Care Unit** — See definition shown in AHA “Specialty Services” section. These units may also include other intensive care units in OSCAR reporting.

**Organ Transplant** — See definition shown in AHA “Organ/Tissue Transplant” section. May include tissue transplants because there is not a separate field in OSCAR for these services.

# TECHNICAL INFORMATION

## DATA SOURCES

The data analyzed in this report are obtained from the Medicare Provider Analysis and Review (MEDPAR) file for the fiscal years 1987-1990, which contains information on the hospital stays of Medicare beneficiaries. The principal sources of data for this file are the bills (known as HCFA-1450 or UB-82) submitted by the hospitals to HCFA through fiscal intermediaries. The MEDPAR file also contains data about the beneficiaries, such as age, sex, and date of death, which are obtained from the Social Security Administration, the Railroad Retirement Board, or the Office of Personnel Management.

Hospital stays with discharges in fiscal years 1988, 1989, and 1990 were used in these analyses. Hospital stays in 1987 were used only to characterize the prior admissions of the patients in the 1987 cohort. Only acute care hospital stays in short-term (general and specialty) hospitals were selected. These hospitals have a "0" in the third position of their Medicare provider number. Hospital stays in institutions (designated by a "9" in the fourth position of the provider number) and hospital stays in psychiatric units, rehabilitation units, swing-beds and alcohol/drug units (with "special unit codes" of S, T, U and V, respectively, in the third position) were excluded.

## THE MORTALITY MODEL

For each beneficiary in each year one hospitalization was selected at random. Choosing a specific hospitalization is necessary to avoid multiple counting of the same death for that year. Selecting a random hospitalization instead of the first or last in the year produces mortality rates that are more representative of the rates that a hospital might calculate for its patients. Also, the mortality rates based on this random selection process reflect an intermediate position between the rates produced by the alternatives.

The selected hospital stays were analyzed separately by analytical category. The analytical categories were created by grouping ICD-9-CM diagnosis codes that had similar mortality patterns. The procedures for creating the analytical categories and the groups of ICD-9-CM diagnosis codes that defined them are detailed in the Technical Supplement.

The mortality experience of the patients was evaluated as a function of time within 365 days of the admission. The factors included in the mortality model used to evaluate each patient's probabilities of death are given in Table 3. They consist of demographic characteristics (age and sex), major comorbidities (chronic diseases likely to have been present at admission and believed to



complicate management and increase the likelihood of an adverse outcome), prior admissions (grouped into five risk or severity levels) within the 6 months preceding the admission evaluated, admission type (emergent, elective, etc.), and admission source (referral from the physician's office, the nursing facility, etc.). The specific reason for the admission (the principal diagnosis) and the performance of selected surgical procedures were additional factors used in the estimation of the predicted probability of death (see below).

The observed mortality rate for a hospital was calculated by means of the lifetable method ("The LIFETEST Procedure," Chapter 22, SAS User's Guide: Statistics, Version 5 Edition, pages 529-557).

## ANALYTIC TECHNIQUES

A time-to-event or survival model with explanatory or concomitant variables was used to ascertain the influence of the patient characteristics listed above on the probability of death. A feature of such a model is allowance for "right censored" observations. Generally, these are events or outcomes which would have occurred but for some interference that prevents further observation. In the present analysis, "right censoring" occurs when a patient is withdrawn alive from the study April 1, 1991 or at the end of the followup period of 365 days.

The survival function,  $S(t)$ , is one of several equivalent ways of expressing the model. Another form uses the cumulative distribution function or the mortality function

$$F(t) = 1 - S(t).$$

Another useful formulation of these models is the hazard function,  $h(t)$ , also known as the force of mortality or risk function. The hazard is the rate of decrease in the number of survivors relative to the number of survivors at a specific time. Mathematically, the hazard function is

$$h(t) = - \frac{1}{S(t)} \frac{dS(t)}{dt} = - \frac{d \ln(S(t))}{dt}.$$

The probability density function,  $f(t)$ , commonly used in statistical texts can be expressed as follows:

$$f(t) = \frac{dF(t)}{dt} = h(t)S(t).$$

The area under the survival curve is the expected value for  $t$ . In some cases, the area under the survival curve is restricted to an interval  $0-t_1$  where  $t_1$  might be one year, for example.

The specific time-to-event or survival model used in the present analysis is Bailey's modification of the Makeham model. The survival function for the Bailey-Makeham model is

$$S(t) = \exp\left\{-\delta t - \left(\frac{\alpha}{\gamma}\right)(1 - \exp(-\gamma t))\right\}$$

where

$$\alpha = \exp(\alpha_0 + \alpha_1 x_1 + \dots + \alpha_i x_i + \dots + \alpha_k x_k)$$

$$\gamma = \exp(\gamma_0 + \gamma_1 x_1 + \dots + \gamma_i x_i + \dots + \gamma_k x_k)$$

$$\delta = \exp(\delta_0 + \delta_1 x_1 + \dots + \delta_i x_i + \dots + \delta_k x_k)$$

are the expressions for each of the structural parameters  $\alpha$ ,  $\gamma$ , and  $\delta$  in terms of the  $k$  concomitant variables  $x_i$  and their associated component parameters  $\alpha_i$ ,  $\gamma_i$ , and  $\delta_i$  for  $i=1, 2, \dots, k$  and three intercepts or component parameters  $\alpha_0$ ,  $\gamma_0$ , and  $\delta_0$ . The structural parameter  $\delta$  is the long-term risk which is approached as  $t \rightarrow \infty$ . The structural parameter  $\alpha$  is the initial excess risk which decays with rate constant  $\gamma$ .

For the survival function given above, the risk or hazard function has an especially tractable form of an exponential decay which approaches a long-term risk,  $\delta$ . The hazard function corresponding to the survival function above is

$$h(t) = \alpha \exp(-\gamma t) + \delta.$$

The estimation of the component parameters was carried out in a series of steps in which those covariates which had estimable and statistically significant ( $p < 0.05$ ) influences of the probability of death were identified for inclusion in the model. As the model for each of the 23 risk categories was estimated separately, different lists of covariates were used for the final core models.

This first step was followed by the estimation of the additional contribution of specific principal diagnoses in each risk category. In these analyses, the effects of the patient characteristics included in the core models were corrected for. Only those principal diagnoses were retained which were estimable and had more than 900 cases (more than 300 for codes identified by year). Similarly, after adjustment for the effects of both the variables in the core model and the principal diagnoses, correction terms were calculated to estimate the additional information about the probability of death associated with the categorization of the patients into the clinical groups used for the presentation of the data in the mortality tables (see below). These correction terms were negligible for the medical categories but substantial for the surgical categories.



Once the component parameters or regression coefficients  $\alpha_i$ ,  $\gamma_i$ , and  $\delta_i$  have been estimated, the predicted probability of patient death at any specified time after admission,  $1-S(t)$ , may be calculated for all individuals. To obtain the predicted mortality rate up to a given time for a hospital, it is then only necessary to average over the predicted probabilities of death of its patients to that time.

The analytical categories are useful for grouping the patients into relatively risk-homogeneous strata for the regressions. However, to gain insights into patterns of practice at hospitals, the data are presented for patients grouped into clinically meaningful medical and surgical categories. The 17 clinical categories used in the mortality tables and defined in Table 1 were identified by the Institute of Medicine as being of particular medical and epidemiologic interest.

## ESTIMATION OF THE STANDARD DEVIATION FOR PREDICTED MORTALITY

The standard deviation of the predicted mortality rate is used to assess how statistically different the observed mortality rate is from the rate predicted by the national experience with like patients. The standard deviation depends, in fact, on the variance of the residual or the difference between the observed,  $P$ , and predicted,  $\hat{\Theta}$ , mortality rates.

The residual has four components  $V_1$ ,  $V_2$ ,  $V_3$ , and  $V_4$  where  $V_1$  is the variance of the estimate of the predicted probability of death. This computationally intensive term was negligible for nearly all cases, compared to other components of variance. Consequently, this term was not included in the present analysis.

$V_2$  is the binomial variance for  $n$  patients

$$V_2 = \frac{\hat{\Theta} (1 - \hat{\Theta})}{n}.$$

$V_3$  is the variation among hospitals not explained by the mortality regression models containing the patient characteristics described above.

$$V_3 = \widehat{\text{Var}}(\hat{\Theta}) = \left(1 - \frac{1}{n}\right) \widehat{M_2}(\hat{\Theta})$$



where

$$\widehat{M_2(\Theta)} = \left\{ \left( \begin{array}{c} \text{Predicted mortality} \\ \text{on basis of} \\ \text{patient characteristics and} \\ \text{adjustment for hospital effects} \end{array} \right) - \left( \begin{array}{c} \text{Predicted mortality} \\ \text{on basis of} \\ \text{patient characteristics,} \\ \text{but omitting the hospital specific effects} \end{array} \right) \right\}^2 \left( \frac{1}{z_p^2} \right)$$

The quantity  $z_p$  corresponds to the statistical significance (p-value) of the hospital-specific effect.

$V_4$  is the variation not explained by the mortality regression models which each include, in addition, an indicator variable for the hospital:

$$V_4 = \left\{ (\text{Observed mortality}) - \left( \begin{array}{c} \text{Predicted mortality} \\ \text{on basis of} \\ \text{patient characteristics, and} \\ \text{adjustment for the hospital specific effects} \end{array} \right) \right\}^2$$

(The regression coefficients of the indicator variable for the hospital are a measure of the influence on the probability of patient death of factors not otherwise specified in the model. These factors include severity of illness not adequately reported on by the patient characteristics deduced from the claims data and the hospital's pattern of practice; i.e., performance.)

The standard deviation given in the mortality tables is just

$$SD = \sqrt{V_2 + V_3 + V_4}.$$

## STANDARDIZED MORTALITY RATIO (SMR)

Another method of evaluating a hospital's performance—the Standardized Mortality Ratio (SMR)—is obtained by dividing the observed mortality rate by the predicted mortality rate. An SMR of one means the observed and predicted mortality are equal. A ratio greater than one means the observed mortality exceeds the predicted. A ratio less than one means the observed mortality is less than expected. The more extreme the ratio (significantly greater than one indicating unusually high mortality and significantly less than one indicating unusually low mortality), the greater the attention which should be paid to the results of this mortality report.

For each of the conditions and procedures, selected percentiles for the observed distribution of the SMR are displayed in Table 4. The selected percentiles provide benchmarks for comparison. For example, for a hospital

with 300 cases in the "All Causes" category, with observed mortality of 12.2 percent and predicted probability of 10.0 percent at 30 days, the standardized mortality ratio is

$$\text{SMR} = 12.2/10.0 = 1.22.$$

Note that an SMR of one means the observed and predicted mortality are equal, while a ratio greater than one means the observed mortality exceeds the predicted, and a ratio less than one means the observed mortality is less than expected. There will be greater interest in the more extreme ratios, either greater than one — excessively high mortality — or less than one — extremely low mortality.

From Table 4 for FY 1990, we find that the ratio is just below the 75th percentile of 1.23. Hence, slightly under 75 percent of the hospitals have an SMR less than that found at this hospital.

However, for a hospital with 900 cases in the "All Causes" category, with observed mortality of 19.3 percent and predicted probability of 10.0 percent at 30 days, the standardized mortality ratio is

$$\text{SMR} = 19.3/10.0 = 1.93.$$

Since the SMR of 1.93 is greater than the 97.5 percentile of 1.35 (Table 4 for 750 or more cases), there is cause for concern. To further assess this, we examine the displayed data in terms of the measure of uncertainty, the standard deviation.

## MEASURES OF UNCERTAINTY

In principle, to use the standard normal approximations to determine prediction intervals, an adjustment must be applied for the skewness and kurtosis inherent in a mortality rate when the rate is considerably less than 50 percent and the number of cases is small. Table 5 presents the multiplicative factors, based on the binomial distribution, for the standard deviation needed to construct prediction intervals for the mortality rates at confidence levels of 75, 95 and 99 percent. Because of the approximations involved in the estimation of the skewness and kurtosis corrections, their precision decreases as the number of cases and the mortality rate decrease; i.e., as the value of the correction increases. In addition, because of simplifications and approximations in the estimation of the standard deviation, the precision of the multiplicative factors given in Table 5 exceeds the precision of the estimate of the standard deviation. Hence, the following rule-of-thumb represents an adequate approximation to the factors in Table 5 and an adequate guide to the statistical meaningfulness of the difference between the observed and the predicted mortality rates.



To illustrate the use of Table 5, consider a hospital with 75 cases and a predicted mortality of 13.0 percent with a standard deviation of 5.0 percent. Overall, for hospitals with patients with characteristics similar to those of this hospital, we would expect the actual or observed mortality rate to lie, 95 percent of the time, either between 13.0 percent and 22.9 percent if the actual is larger than the predicted, or between 3.3 percent and 13.0 percent if the actual is less than the predicted. That is because  $22.9 \text{ percent} = 13.0 \text{ percent} + 1.98 \times 5.0 \text{ percent}$ , the factor 1.98 having been read from the section of Table 5 with the heading "95 Percent Prediction Interval" and "Factor for Upper Bound," the row "75" for the number of cases, and, by interpolation, between the "10 percent" and the "20 percent" predicted mortality rate columns. Similarly,  $3.3 \text{ percent} = 13.0 \text{ percent} - 1.94 \times 5.0 \text{ percent}$ , the factor -1.94 having been read from the section of Table 5 with the heading "95 Percent Prediction Interval" and "Factor for Lower Bound" and the corresponding row and columns.

Therefore, in comparing the actual and predicted rates, more attention should be given to the hospital whose observed mortality rate lies beyond the bounds calculated for the 99 percent prediction interval than to the hospital whose observed mortality rate lies only beyond the bounds calculated for the 95 percent prediction interval. Likewise, more attention should be given to that hospital than to the hospital whose observed mortality rate lies only beyond the bounds calculated for the 75 percent prediction interval.

For the graphs, the observed mortality and an approximate 95 percent prediction interval are displayed. The prediction interval has bounds at the predicted mortality plus 2 times the standard deviation and at the predicted minus 2 times the standard deviation.

In the mortality rate tables, the observed and predicted mortality rates and the standard deviation as a measure for statistical importance of the difference are displayed for the overall and each of the conditions and procedures.



## HOW TO OBTAIN MEDICARE HOSPITAL INFORMATION

The publication has been widely distributed to State health organizations and hospital and medical associations. The publication is available to the public for purchase in 55 volumes, with each volume being sold separately through the Government Printing Office (GPO). More detailed information about the purchase of this publication may be obtained by contacting:

Superintendent of Documents  
Government Printing Office  
Washington, D.C. 20402  
Telephone: (202) 783-3238

As in prior years, the information appearing in the Medicare Hospital Information report is available in machine-readable/electronic format (tape and diskette). The Medicare Hospital Information public use file provides the published information as contained in the 55-volume hardcopy publication, except that the AHA's hospital characteristics are not on this file. Hospital characteristics from HCFA files (OSCAR) are provided instead. The files contain additional information which is useful for supplemental analyses: averages by hospital, MSA, and State for each of the variables used in the model, mortality rates for 15, 30, 60, 90 and 180 days, and cross-reference files which relate State, MSA, and ICD-9-CM codes used to a name. These data should allow analysts to assess an individual hospital's performance in comparison to all hospitals in the State or applicable MSA.

Also available to hospitals in machine-readable format is their patient-specific data that were used in the report. These data include the patient variables used in the analysis (e.g., the number and severity level of prior hospitalizations considered by the methodology, admission source and type, etc.) and the predicted probability of death at each time interval for each individual included in the study. With these data it is possible for hospitals to better understand their statistics. Due to confidentiality considerations, requests for patient-specific data must be forwarded on hospital letterhead, must include the institution's Medicare provider number, and must be signed by the hospital administrator.

For information about obtaining Medicare Hospital Information electronic media data, please contact HCFA's Bureau of Data Management and Strategy at:

Health Care Financing Administration  
Bureau of Data Management and Strategy  
Office of Statistics and Data Management  
3-A-10 Security Office Park Building  
6325 Security Boulevard  
Baltimore, Maryland 21207  
Telephone: (410) 597-5151

**Table 1**

**DIAGNOSTIC AND PROCEDURE CATEGORIES**

The following lists the ICD-9-CM diagnostic and procedure codes used to classify and group patients for presentation

**CONDITION/PROCEDURE**

**ICD-9-CM CODES**

*(D)=Diagnosis code*

*(P)=Procedure code*

**Heart Disorders/Procedures**

Acute Myocardial Infarction  
(AMI)

All of 410 (D) (on 10/1/89 exclude 410 with 5th digit of a 2)

*Note: For code 410 a 5th digit was added on October 1, 1989.*

Congestive Heart Failure  
(CHF)

398.91, 402.01, 402.11, 402.91, 428.0, 428.1, 428.9 (all D)

Angioplasty  
(ANGPLSTY)

All of 36.0 (P) excluding 36.00, 36.03, 36.04, 36.09 (all P)

*Note: Code 36.0 had a 4th digit added on October 1, 1986. Code 36.0 got digits of 0, 1, 2, 3, and 9, and code 36.04 got some previously coded cases of 39.97. On October 1, 1987, code 36.01 was divided into 36.01 and 36.05, and some cases from 36.02 were put into 36.05.*

Coronary Artery Bypass Graft  
(CABG)

All of 36.1(P) and not Angioplasty (see above)

Pacemaker Insertion, Initial  
(PACE)

37.73, 37.74, 37.75, 37.77 (after 10/1/87 use 37.70 through 37.73) (all P)

*Note: Code 37.70 was restructured on October 1, 1987. Previously the code contained both leads and devices. On October 1 these were separated and devices were coded as 37.80 through 37.83, and codes for the leads were changed into various 37.70 codes.*

**CONDITION/PROCEDURE****ICD-9-CM CODES***(D)=Diagnosis code**(P)=Procedure code***Pulmonary Disorders****Pneumonia/Influenza  
(PNU)**

All of 480, all of 481, 482.2, 482.3, 482.9, 483, 485, 486, 487.0 (all D)

**Chronic Obstructive Pulmonary  
(COPD)**

All of 491, all of 492, all of 494, Disease all of 496; and 466.0, 518.82, 518.5, and 786.09 when there is a secondary diagnosis of any 496 (all D)

*Note: Code 518.8 got a 5th digit on October 1, 1987. Some cases from 799.1 were put into codes 518.81 and 518.82.*

**Cerebrovascular Disorders/Procedures****Transient Cerebral Ischemia  
(TCI)**

433.1, 433.3, 435 (D) and exclude those patients with an endarterectomy at the time of admission—38.12(P)

**Stroke  
(STK)**

431, 434 through 434.9, 436 (all D)

**Carotid Endarterectomy  
(ENDART)**

38.12 (P) with 433.1 (D); 433.3 (D) or 435(D) as a principal diagnosis

**Musculoskeletal Disorders/Procedures****Fracture of Neck of Femur  
(FXHIP)**

All of 820 (D)

**Hip Replacement/Revision  
(HIPREP)**

81.5, 81.6 (exclude 81.69) (all P). On 10/1/89 code 81.51 (P) through 81.53 (P) with same diagnoses.

**Open Reduction of Fractured Femur  
(OPRDUX)**

79.35(P) on condition of 820 (D) as principal diagnosis



**CONDITION/PROCEDURE****ICD-9-CM CODES***(D)=Diagnosis code**(P)=Procedure code***Genitourinary Disorders/Procedures**Prostatectomy  
(PROS)

60.2, 60.3 through 60.69 (all P)

Hysterectomy  
(HYS)

68.3 through 68.7 (P)

**Gastrointestinal Disorders/Procedures**Cholecystectomy  
(CHOLOTMY)

51.22 (P)

**Sepsis**

Sepsis

003.1, 020.2, 022.3, 036.2, 036.3,  
036.89, 036.9, 038.0, 038.1, 038.2,  
038.3, 038.40, 038.41, 038.42, 038.43,  
038.44, 038.49, 038.8, 038.9, 054.5

**Table 2**  
**COMORBIDITY CONDITIONS**  
(all are D codes)

| COMORBIDITY                    | ICD-9-CM CODES                                                                                   |
|--------------------------------|--------------------------------------------------------------------------------------------------|
| Cancer                         | 141-160.9, 162-172.9, 174-208.91                                                                 |
| Chronic cardiovascular disease | 412-414.9, 426-429.1                                                                             |
| Chronic liver disease          | 571-572.8                                                                                        |
| Chronic renal disease          | 582-583.9, 585-587, 403.01, 403.11,<br>403.91, 404.02, 404.03, 404.12, 404.13,<br>404.92, 404.93 |
| Chronic diabetes               | 250.01, 250.1-250.91                                                                             |
| Chronic pulmonary disease      | 491-493.91, 496                                                                                  |
| Cerebrovascular degeneration   | 290-290.9, 294-299.9                                                                             |

# Table 3

## EXPLANATORY VARIABLES FOR THE MORTALITY MODEL

Generally the same variables are used for all diagnostic categories.

### Demographics

SXFM                      An indicator variable: = 1 if Female, 0 otherwise

AGEFM = AGESP if SXFM = 1, 0 otherwise

AGEML = AGESP if SXFM = 0, 0 otherwise

where

$$\text{AGESP} = \text{sign}(W-65) \left( \frac{|W-65|}{65} \right)^{1.44}$$

and

$$W = \begin{cases} 23 & \text{if AGE} \leq 23 \\ \text{AGE} & \text{if } 23 < \text{AGE} < 100 \\ 100 & \text{if } 100 \leq \text{AGE} \end{cases}$$

### Comorbidities

### ICD-9-CM Codes

(Indicator variables = 1 if comorbidity present on current or prior admission with discharge within 6 months prior to current admission, 0 otherwise)

|     |                                |                                                                                            |
|-----|--------------------------------|--------------------------------------------------------------------------------------------|
| CCA | Cancer                         | 141-160.9, 162-172.9, 174-208.91                                                           |
| CCV | Chronic cardiovascular disease | 412-414.9, 426-429.1                                                                       |
| CLV | Chronic liver disease          | 571-572.8                                                                                  |
| CRN | Chronic renal disease          | 582-583.9, 585-587, 403.01, 403.11, 403.91, 404.02, 404.03, 404.12, 404.13, 404.92, 404.93 |
| CDI | Chronic diabetes               | 250.01, 250.1-250.91                                                                       |
| COP | Chronic pulmonary disease      | 491-493.91, 496                                                                            |
| CCE | Cerebrovascular degeneration   | 290-290.9, 294-299.9                                                                       |



### **Co Occurrence of Comorbidities**

|         |                                       |
|---------|---------------------------------------|
| COP_CCV | 1 if COP = 1 and CCV = 1, 0 otherwise |
| CCA_CCV | 1 if CCA = 1 and CCV = 1, 0 otherwise |
| COP_CCA | 1 if COP = 1 and CCA = 1, 0 otherwise |
| CCE_CCV | 1 if CCE = 1 and CCV = 1, 0 otherwise |
| CRN_CCV | 1 if CRN = 1 and CCV = 1, 0 otherwise |

### **Admission Sources and Types**

(Indicator variables = 1 if source or type present, 0 otherwise)

|       |                                                   |
|-------|---------------------------------------------------|
| PREF  | Patient referred by personal or HMO physician     |
| TRSNF | Patient transferred from skilled nursing facility |
| ELCT  | Patient admitted for elective procedure           |
| EMRG  | Patient admitted for emergency                    |

### **Co-Occurrence of Admission Source and Type**

PREF\_ELEC = 1 if PREF = 1 and ELCT = 1, 0 otherwise

### **Previous Hospitalizations**

|         |                                                                                                             |
|---------|-------------------------------------------------------------------------------------------------------------|
| P_RISK1 | Number at 1st risk level with 3 or more set to 3                                                            |
| P_RISK2 | Number at 2nd risk level with 3 or more set to 3                                                            |
| P_RISK3 | Number at 3rd risk level with 3 or more set to 3                                                            |
| P_RISK4 | Number at 4th risk level with 4 or more set to 4                                                            |
| P_RISK5 | Number at 5th risk level with 3 or more set to 3                                                            |
| F(T)    | Probability of death from previous admission if discharge within 182 days of current admission, 0 otherwise |

### **Time Trend**

|        |                                                                                   |
|--------|-----------------------------------------------------------------------------------|
| FLAG89 | 1 if discharge in FY1989, 0 otherwise                                             |
| FLAG90 | 1 if discharge in FY1990, 0 otherwise                                             |
| INYEAR | Difference between current admission date and April 1 of fiscal year of discharge |

TABLE 4  
SMR DISTRIBUTION FOR HOSPITALS WITH GREATER THAN 50 CASES  
1990 STUDY, FY1990

| CONDITIONS/PROCEDURES    | NUMBER<br>OF<br>HOSPITALS | 30 DAYS |       |       |       |       | 90 DAYS |       |       |       |       | 180 DAYS |       |       |       |       |
|--------------------------|---------------------------|---------|-------|-------|-------|-------|---------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
|                          |                           | 2.5%    | 25%   | 50%   | 75%   | 97.5% | 2.5%    | 25%   | 50%   | 75%   | 97.5% | 2.5%     | 25%   | 50%   | 75%   | 97.5% |
|                          |                           | -----   | ----- | ----- | ----- | ----- | -----   | ----- | ----- | ----- | ----- | -----    | ----- | ----- | ----- | ----- |
| OVERALL( < 750 CASES )   | 2645                      | 0.45    | 0.88  | 1.04  | 1.23  | 1.72  | 0.56    | 0.90  | 1.03  | 1.17  | 1.54  | 0.61     | 0.90  | 1.02  | 1.15  | 1.46  |
| OVERALL( >= 750 CASES)   | 2684                      | 0.73    | 0.91  | 0.99  | 1.09  | 1.35  | 0.79    | 0.94  | 1.01  | 1.09  | 1.28  | 0.82     | 0.94  | 1.01  | 1.08  | 1.24  |
| CONDITIONS               |                           |         |       |       |       |       |         |       |       |       |       |          |       |       |       |       |
| -----                    |                           |         |       |       |       |       |         |       |       |       |       |          |       |       |       |       |
| AMI                      | 1405                      | 0.54    | 0.80  | 0.95  | 1.11  | 1.42  | 0.62    | 0.86  | 0.99  | 1.14  | 1.44  | 0.63     | 0.86  | 0.99  | 1.13  | 1.39  |
| CHF                      | 2335                      | 0.43    | 0.79  | 0.98  | 1.17  | 1.64  | 0.60    | 0.85  | 0.99  | 1.13  | 1.49  | 0.66     | 0.89  | 1.00  | 1.13  | 1.41  |
| PNEUMONIA/INFLUENZA      | 2428                      | 0.41    | 0.78  | 0.97  | 1.18  | 1.68  | 0.53    | 0.84  | 1.00  | 1.17  | 1.55  | 0.57     | 0.86  | 1.01  | 1.16  | 1.50  |
| COPD                     | 435                       | 0.00    | 0.63  | 0.97  | 1.34  | 2.06  | 0.30    | 0.78  | 1.02  | 1.26  | 1.74  | 0.40     | 0.82  | 1.01  | 1.24  | 1.69  |
| TRANS. CEREBRAL ISCHEMIA | 404                       | 0.00    | 0.00  | 0.83  | 1.34  | 3.20  | 0.00    | 0.48  | 0.85  | 1.31  | 2.27  | 0.21     | 0.60  | 0.90  | 1.21  | 2.05  |
| STROKE                   | 1789                      | 0.53    | 0.79  | 0.95  | 1.13  | 1.56  | 0.61    | 0.84  | 0.98  | 1.13  | 1.47  | 0.65     | 0.87  | 0.99  | 1.12  | 1.42  |
| HIP FRACTURE             | 1199                      | 0.21    | 0.67  | 0.93  | 1.27  | 2.10  | 0.40    | 0.76  | 0.94  | 1.19  | 1.80  | 0.47     | 0.78  | 0.97  | 1.16  | 1.64  |
| SEPSIS                   | 254                       | 0.51    | 0.79  | 0.96  | 1.12  | 1.50  | 0.65    | 0.86  | 0.99  | 1.13  | 1.47  | 0.69     | 0.89  | 1.01  | 1.15  | 1.44  |
| PROCEDURES               |                           |         |       |       |       |       |         |       |       |       |       |          |       |       |       |       |
| -----                    |                           |         |       |       |       |       |         |       |       |       |       |          |       |       |       |       |
| ANGIOPLASTY              | 425                       | 0.00    | 0.49  | 0.89  | 1.33  | 2.66  | 0.00    | 0.60  | 0.93  | 1.36  | 2.34  | 0.00     | 0.63  | 0.97  | 1.34  | 2.14  |
| CABG                     | 556                       | 0.20    | 0.68  | 1.03  | 1.39  | 2.45  | 0.28    | 0.73  | 1.00  | 1.32  | 2.09  | 0.28     | 0.73  | 1.01  | 1.30  | 2.10  |
| PACEMAKER                | 112                       | 0.00    | 0.41  | 0.72  | 1.37  | 3.25  | 0.20    | 0.61  | 0.90  | 1.21  | 2.17  | 0.21     | 0.65  | 0.84  | 1.16  | 1.87  |
| CAROTID ENDARTERECTOMY   | 73                        | 0.00    | 0.00  | 0.85  | 1.33  | 2.90  | 0.00    | 0.14  | 0.74  | 1.28  | 2.43  | 0.00     | 0.42  | 0.86  | 1.38  | 2.86  |
| HIP REPLACEMENT          | 763                       | 0.00    | 0.53  | 0.94  | 1.44  | 2.77  | 0.19    | 0.67  | 0.96  | 1.31  | 2.12  | 0.26     | 0.71  | 0.94  | 1.26  | 1.91  |
| REDUCT. OF HIP FRACTURE  | 276                       | 0.00    | 0.56  | 0.86  | 1.22  | 2.05  | 0.31    | 0.68  | 0.92  | 1.19  | 1.76  | 0.38     | 0.77  | 0.96  | 1.12  | 1.58  |
| PROSTATECTOMY            | 1576                      | 0.00    | 0.00  | 0.73  | 1.57  | 3.56  | 0.00    | 0.49  | 0.91  | 1.40  | 2.63  | 0.00     | 0.57  | 0.92  | 1.29  | 2.21  |
| CHOLECYSTECTOMY          | 714                       | 0.00    | 0.49  | 0.95  | 1.54  | 2.68  | 0.00    | 0.62  | 0.93  | 1.37  | 2.22  | 0.22     | 0.67  | 0.98  | 1.27  | 1.93  |
| HYSTERECTOMY             | 113                       | 0.00    | 0.00  | 0.00  | 2.00  | 6.69  | 0.00    | 0.00  | 0.76  | 1.70  | 3.59  | 0.00     | 0.24  | 0.75  | 1.27  | 2.91  |

TABLE 4  
SMR DISTRIBUTION FOR HOSPITALS WITH GREATER THAN 50 CASES  
1990 STUDY, FY1989

| CONDITIONS/PROCEDURES    | NUMBER<br>OF<br>HOSPITALS | 30 DAYS |       |       |       |       | 90 DAYS |       |       |       |       | 180 DAYS |       |       |       |       |
|--------------------------|---------------------------|---------|-------|-------|-------|-------|---------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
|                          |                           | 2.5%    | 25%   | 50%   | 75%   | 97.5% | 2.5%    | 25%   | 50%   | 75%   | 97.5% | 2.5%     | 25%   | 50%   | 75%   | 97.5% |
|                          |                           | -----   | ----- | ----- | ----- | ----- | -----   | ----- | ----- | ----- | ----- | -----    | ----- | ----- | ----- | ----- |
| OVERALL( < 750 CASES )   | 2746                      | 0.50    | 0.87  | 1.04  | 1.23  | 1.73  | 0.58    | 0.89  | 1.03  | 1.17  | 1.54  | 0.61     | 0.89  | 1.01  | 1.14  | 1.44  |
| OVERALL( >= 750 CASES)   | 2669                      | 0.71    | 0.90  | 1.00  | 1.09  | 1.35  | 0.79    | 0.94  | 1.01  | 1.08  | 1.28  | 0.82     | 0.95  | 1.01  | 1.07  | 1.24  |
| CONDITIONS               |                           |         |       |       |       |       |         |       |       |       |       |          |       |       |       |       |
| -----                    |                           |         |       |       |       |       |         |       |       |       |       |          |       |       |       |       |
| AMI                      | 1412                      | 0.53    | 0.81  | 0.96  | 1.12  | 1.47  | 0.59    | 0.86  | 1.01  | 1.15  | 1.47  | 0.63     | 0.87  | 1.00  | 1.14  | 1.43  |
| CHF                      | 2293                      | 0.47    | 0.80  | 0.97  | 1.18  | 1.69  | 0.58    | 0.86  | 1.00  | 1.14  | 1.48  | 0.66     | 0.89  | 1.02  | 1.14  | 1.40  |
| PNEUMONIA/INFLUENZA      | 2179                      | 0.45    | 0.77  | 0.97  | 1.19  | 1.67  | 0.54    | 0.85  | 1.01  | 1.18  | 1.55  | 0.60     | 0.86  | 1.02  | 1.18  | 1.51  |
| COPD                     | 324                       | 0.21    | 0.68  | 0.99  | 1.32  | 2.13  | 0.44    | 0.78  | 1.04  | 1.27  | 1.91  | 0.49     | 0.84  | 1.04  | 1.24  | 1.66  |
| TRANS. CEREBRAL ISCHEMIA | 420                       | 0.00    | 0.00  | 0.79  | 1.41  | 3.26  | 0.00    | 0.46  | 0.88  | 1.33  | 2.36  | 0.18     | 0.60  | 0.92  | 1.25  | 1.97  |
| STROKE                   | 1728                      | 0.53    | 0.80  | 0.95  | 1.12  | 1.56  | 0.62    | 0.85  | 0.97  | 1.11  | 1.46  | 0.67     | 0.88  | 0.99  | 1.13  | 1.40  |
| HIP FRACTURE             | 1126                      | 0.24    | 0.67  | 0.95  | 1.30  | 2.04  | 0.39    | 0.75  | 0.98  | 1.21  | 1.71  | 0.46     | 0.78  | 0.97  | 1.18  | 1.59  |
| SEPSIS                   | 174                       | 0.52    | 0.79  | 0.94  | 1.10  | 1.52  | 0.63    | 0.88  | 1.02  | 1.15  | 1.46  | 0.68     | 0.93  | 1.05  | 1.16  | 1.43  |
| PROCEDURES               |                           |         |       |       |       |       |         |       |       |       |       |          |       |       |       |       |
| -----                    |                           |         |       |       |       |       |         |       |       |       |       |          |       |       |       |       |
| ANGIOPLASTY              | 370                       | 0.00    | 0.46  | 0.84  | 1.35  | 2.55  | 0.00    | 0.55  | 0.88  | 1.33  | 2.52  | 0.00     | 0.61  | 0.94  | 1.32  | 2.44  |
| CABG                     | 501                       | 0.21    | 0.65  | 1.00  | 1.47  | 2.57  | 0.23    | 0.69  | 1.00  | 1.33  | 2.29  | 0.32     | 0.74  | 1.01  | 1.33  | 2.21  |
| PACEMAKER                | 91                        | 0.00    | 0.52  | 0.74  | 1.12  | 2.31  | 0.00    | 0.56  | 0.83  | 1.15  | 2.14  | 0.20     | 0.68  | 0.81  | 1.16  | 1.87  |
| CAROTID ENDARTERECTOMY   | 55                        | 0.00    | 0.00  | 0.82  | 1.51  | 5.01  | 0.00    | 0.47  | 0.86  | 1.31  | 4.00  | 0.00     | 0.43  | 0.85  | 1.28  | 3.12  |
| HIP REPLACEMENT          | 686                       | 0.00    | 0.52  | 0.92  | 1.44  | 2.46  | 0.00    | 0.65  | 0.94  | 1.27  | 1.95  | 0.21     | 0.67  | 0.94  | 1.19  | 1.75  |
| REDUCT. OF HIP FRACTURE  | 246                       | 0.19    | 0.57  | 0.91  | 1.23  | 1.96  | 0.31    | 0.71  | 0.96  | 1.19  | 1.74  | 0.41     | 0.78  | 0.96  | 1.13  | 1.53  |
| PROSTATECTOMY            | 1570                      | 0.00    | 0.00  | 0.67  | 1.50  | 3.46  | 0.00    | 0.47  | 0.86  | 1.36  | 2.67  | 0.00     | 0.58  | 0.93  | 1.28  | 2.15  |
| CHOLECYSTECTOMY          | 680                       | 0.00    | 0.53  | 0.94  | 1.53  | 2.90  | 0.00    | 0.62  | 0.97  | 1.36  | 2.15  | 0.22     | 0.66  | 0.95  | 1.26  | 1.98  |
| HYSTERECTOMY             | 101                       | 0.00    | 0.00  | 0.00  | 1.80  | 5.44  | 0.00    | 0.00  | 0.78  | 1.60  | 4.21  | 0.00     | 0.00  | 0.91  | 1.38  | 2.99  |



TABLE 4  
SMR DISTRIBUTION FOR HOSPITALS WITH GREATER THAN 50 CASES  
1990 STUDY, FY1988

| CONDITIONS/PROCEDURES    | NUMBER<br>OF<br>HOSPITALS | 30 DAYS |       |       |       |       | 90 DAYS |       |       |       |       | 180 DAYS |       |       |       |       |
|--------------------------|---------------------------|---------|-------|-------|-------|-------|---------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
|                          |                           | 2.5%    | 25%   | 50%   | 75%   | 97.5% | 2.5%    | 25%   | 50%   | 75%   | 97.5% | 2.5%     | 25%   | 50%   | 75%   | 97.5% |
|                          |                           | -----   | ----- | ----- | ----- | ----- | -----   | ----- | ----- | ----- | ----- | -----    | ----- | ----- | ----- | ----- |
| OVERALL( < 750 CASES )   | 2838                      | 0.46    | 0.89  | 1.05  | 1.23  | 1.75  | 0.54    | 0.90  | 1.03  | 1.16  | 1.57  | 0.59     | 0.90  | 1.02  | 1.14  | 1.45  |
| OVERALL( >= 750 CASES)   | 2693                      | 0.73    | 0.90  | 1.00  | 1.10  | 1.35  | 0.79    | 0.94  | 1.01  | 1.09  | 1.27  | 0.82     | 0.95  | 1.01  | 1.08  | 1.24  |
| CONDITIONS               |                           |         |       |       |       |       |         |       |       |       |       |          |       |       |       |       |
| -----                    |                           |         |       |       |       |       |         |       |       |       |       |          |       |       |       |       |
| AMI                      | 1414                      | 0.56    | 0.82  | 0.96  | 1.12  | 1.41  | 0.63    | 0.87  | 1.01  | 1.14  | 1.42  | 0.65     | 0.89  | 1.00  | 1.13  | 1.39  |
| CHF                      | 2246                      | 0.45    | 0.79  | 0.97  | 1.18  | 1.61  | 0.60    | 0.86  | 1.00  | 1.14  | 1.43  | 0.68     | 0.90  | 1.02  | 1.13  | 1.37  |
| PNEUMONIA/INFLUENZA      | 2069                      | 0.44    | 0.79  | 0.97  | 1.17  | 1.68  | 0.57    | 0.85  | 1.01  | 1.17  | 1.59  | 0.61     | 0.87  | 1.01  | 1.16  | 1.53  |
| COPD                     | 310                       | 0.21    | 0.67  | 0.92  | 1.30  | 2.17  | 0.39    | 0.79  | 0.98  | 1.20  | 1.81  | 0.51     | 0.82  | 0.99  | 1.19  | 1.59  |
| TRANS. CEREBRAL ISCHEMIA | 495                       | 0.00    | 0.00  | 0.84  | 1.48  | 2.94  | 0.00    | 0.48  | 0.92  | 1.39  | 2.28  | 0.21     | 0.60  | 0.92  | 1.27  | 1.92  |
| STROKE                   | 1726                      | 0.51    | 0.79  | 0.95  | 1.12  | 1.56  | 0.60    | 0.84  | 0.98  | 1.13  | 1.44  | 0.64     | 0.88  | 1.00  | 1.13  | 1.42  |
| HIP FRACTURE             | 1119                      | 0.24    | 0.65  | 0.96  | 1.27  | 2.07  | 0.40    | 0.78  | 0.98  | 1.21  | 1.77  | 0.47     | 0.80  | 0.98  | 1.17  | 1.64  |
| SEPSIS                   | 133                       | 0.58    | 0.77  | 0.92  | 1.08  | 1.64  | 0.56    | 0.86  | 1.00  | 1.13  | 1.54  | 0.67     | 0.88  | 1.02  | 1.14  | 1.53  |
| PROCEDURES               |                           |         |       |       |       |       |         |       |       |       |       |          |       |       |       |       |
| -----                    |                           |         |       |       |       |       |         |       |       |       |       |          |       |       |       |       |
| ANGIOPLASTY              | 297                       | 0.00    | 0.50  | 0.87  | 1.35  | 2.60  | 0.00    | 0.59  | 0.91  | 1.34  | 2.50  | 0.00     | 0.65  | 0.95  | 1.31  | 2.25  |
| CABG                     | 478                       | 0.21    | 0.68  | 0.98  | 1.39  | 2.40  | 0.32    | 0.73  | 1.00  | 1.36  | 2.12  | 0.38     | 0.75  | 1.01  | 1.31  | 2.04  |
| PACEMAKER                | 83                        | 0.00    | 0.34  | 0.65  | 1.04  | 1.75  | 0.01    | 0.54  | 0.85  | 1.03  | 1.70  | 0.23     | 0.69  | 0.87  | 1.10  | 1.57  |
| CAROTID ENDARTERECTOMY   | 69                        | 0.00    | 0.00  | 0.60  | 1.23  | 3.30  | 0.00    | 0.33  | 0.62  | 1.09  | 2.50  | 0.00     | 0.44  | 0.68  | 1.16  | 1.87  |
| HIP REPLACEMENT          | 670                       | 0.00    | 0.49  | 0.95  | 1.40  | 2.65  | 0.00    | 0.66  | 1.01  | 1.31  | 2.15  | 0.24     | 0.70  | 0.96  | 1.24  | 1.87  |
| REDUCT. OF HIP FRACTURE  | 259                       | 0.00    | 0.61  | 0.91  | 1.26  | 2.16  | 0.38    | 0.74  | 0.96  | 1.21  | 1.94  | 0.44     | 0.77  | 0.96  | 1.16  | 1.79  |
| PROSTATECTOMY            | 1619                      | 0.00    | 0.00  | 0.78  | 1.53  | 3.69  | 0.00    | 0.54  | 0.92  | 1.39  | 2.57  | 0.00     | 0.61  | 0.93  | 1.30  | 2.21  |
| CHOLECYSTECTOMY          | 642                       | 0.00    | 0.50  | 0.96  | 1.44  | 3.04  | 0.00    | 0.61  | 0.96  | 1.36  | 2.26  | 0.25     | 0.66  | 0.96  | 1.27  | 2.01  |
| HYSTERECTOMY             | 90                        | 0.00    | 0.00  | 0.00  | 1.57  | 5.00  | 0.00    | 0.00  | 0.68  | 1.43  | 2.83  | 0.00     | 0.28  | 0.67  | 1.15  | 2.88  |

**TABLE 5: MULTIPLICATIVE FACTORS FOR THE CALCULATION OF THE BOUNDS FOR PREDICTION INTERVALS**  
(n is the number of cases at your hospital and p is the predicted mortality rate)

| p | n    | 99% Prediction Interval |      |      |      |      | 95% Prediction Interval |      |      |      |      | 75% Prediction Interval |      |      |      |      |
|---|------|-------------------------|------|------|------|------|-------------------------|------|------|------|------|-------------------------|------|------|------|------|
|   |      | Factor for Upper Bound  |      |      |      |      | Factor for Upper Bound  |      |      |      |      | Factor for Upper Bound  |      |      |      |      |
|   |      | 1%                      | 5%   | 10%  | 20%  | 40%  | 1%                      | 5%   | 10%  | 20%  | 40%  | 1%                      | 5%   | 10%  | 20%  | 40%  |
|   | 25   | 2.95                    | 2.73 | 2.68 | 2.63 | 2.59 | 2.15                    | 2.04 | 2.01 | 1.99 | 1.97 | 1.17                    | 1.16 | 1.16 | 1.15 | 1.15 |
|   | 50   | 2.76                    | 2.65 | 2.63 | 2.60 | 2.58 | 2.05                    | 2.00 | 1.99 | 1.97 | 1.96 | 1.16                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 75   | 2.70                    | 2.63 | 2.61 | 2.59 | 2.58 | 2.02                    | 1.99 | 1.98 | 1.97 | 1.96 | 1.16                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 100  | 2.67                    | 2.61 | 2.60 | 2.59 | 2.58 | 2.01                    | 1.98 | 1.97 | 1.97 | 1.96 | 1.16                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 150  | 2.64                    | 2.60 | 2.59 | 2.58 | 2.58 | 1.99                    | 1.97 | 1.97 | 1.96 | 1.96 | 1.15                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 200  | 2.62                    | 2.60 | 2.59 | 2.58 | 2.58 | 1.98                    | 1.97 | 1.97 | 1.96 | 1.96 | 1.15                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 300  | 2.61                    | 2.59 | 2.58 | 2.58 | 2.58 | 1.98                    | 1.97 | 1.96 | 1.96 | 1.96 | 1.15                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 400  | 2.60                    | 2.59 | 2.58 | 2.58 | 2.58 | 1.97                    | 1.96 | 1.96 | 1.96 | 1.96 | 1.15                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 500  | 2.59                    | 2.58 | 2.58 | 2.58 | 2.58 | 1.97                    | 1.96 | 1.96 | 1.96 | 1.96 | 1.15                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 750  | 2.59                    | 2.58 | 2.58 | 2.58 | 2.58 | 1.97                    | 1.96 | 1.96 | 1.96 | 1.96 | 1.15                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 1000 | 2.59                    | 2.58 | 2.58 | 2.58 | 2.58 | 1.96                    | 1.96 | 1.96 | 1.96 | 1.96 | 1.15                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 2000 | 2.58                    | 2.58 | 2.58 | 2.58 | 2.58 | 1.96                    | 1.96 | 1.96 | 1.96 | 1.96 | 1.15                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 5000 | 2.58                    | 2.58 | 2.58 | 2.58 | 2.58 | 1.96                    | 1.96 | 1.96 | 1.96 | 1.96 | 1.15                    | 1.15 | 1.15 | 1.15 | 1.15 |

| p | n    | Factor for Lower Bound |       |       |       |       | Factor for Lower Bound |       |       |       |       | Factor for Lower Bound |       |       |       |       |
|---|------|------------------------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|
|   |      | Factor for Lower Bound |       |       |       |       | Factor for Lower Bound |       |       |       |       | Factor for Lower Bound |       |       |       |       |
|   |      | 1%                     | 5%    | 10%   | 20%   | 40%   | 1%                     | 5%    | 10%   | 20%   | 40%   | 1%                     | 5%    | 10%   | 20%   | 40%   |
|   | 25   | -2.21                  | -2.42 | -2.48 | -2.52 | -2.56 | -1.77                  | -1.88 | -1.91 | -1.93 | -1.95 | -1.13                  | -1.14 | -1.14 | -1.15 | -1.15 |
|   | 50   | -2.39                  | -2.50 | -2.53 | -2.55 | -2.57 | -1.87                  | -1.92 | -1.93 | -1.95 | -1.96 | -1.14                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 75   | -2.45                  | -2.52 | -2.54 | -2.56 | -2.57 | -1.90                  | -1.93 | -1.94 | -1.95 | -1.96 | -1.14                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 100  | -2.48                  | -2.54 | -2.55 | -2.56 | -2.57 | -1.91                  | -1.94 | -1.95 | -1.95 | -1.96 | -1.15                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 150  | -2.51                  | -2.55 | -2.56 | -2.57 | -2.57 | -1.93                  | -1.95 | -1.95 | -1.96 | -1.96 | -1.15                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 200  | -2.53                  | -2.56 | -2.56 | -2.57 | -2.57 | -1.94                  | -1.95 | -1.95 | -1.96 | -1.96 | -1.15                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 300  | -2.54                  | -2.56 | -2.57 | -2.57 | -2.57 | -1.94                  | -1.95 | -1.96 | -1.96 | -1.96 | -1.15                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 400  | -2.55                  | -2.57 | -2.57 | -2.57 | -2.57 | -1.95                  | -1.96 | -1.96 | -1.96 | -1.96 | -1.15                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 500  | -2.56                  | -2.57 | -2.57 | -2.57 | -2.57 | -1.95                  | -1.96 | -1.96 | -1.96 | -1.96 | -1.15                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 750  | -2.56                  | -2.57 | -2.57 | -2.57 | -2.57 | -1.95                  | -1.96 | -1.96 | -1.96 | -1.96 | -1.15                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 1000 | -2.57                  | -2.57 | -2.57 | -2.57 | -2.57 | -1.96                  | -1.96 | -1.96 | -1.96 | -1.96 | -1.15                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 2000 | -2.57                  | -2.57 | -2.57 | -2.58 | -2.58 | -1.96                  | -1.96 | -1.96 | -1.96 | -1.96 | -1.15                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 5000 | -2.57                  | -2.58 | -2.58 | -2.58 | -2.58 | -1.96                  | -1.96 | -1.96 | -1.96 | -1.96 | -1.15                  | -1.15 | -1.15 | -1.15 | -1.15 |

# **Medicare Hospital Information**



# ALLEN COUNTY WAR MEMORIAL HOSPITAL

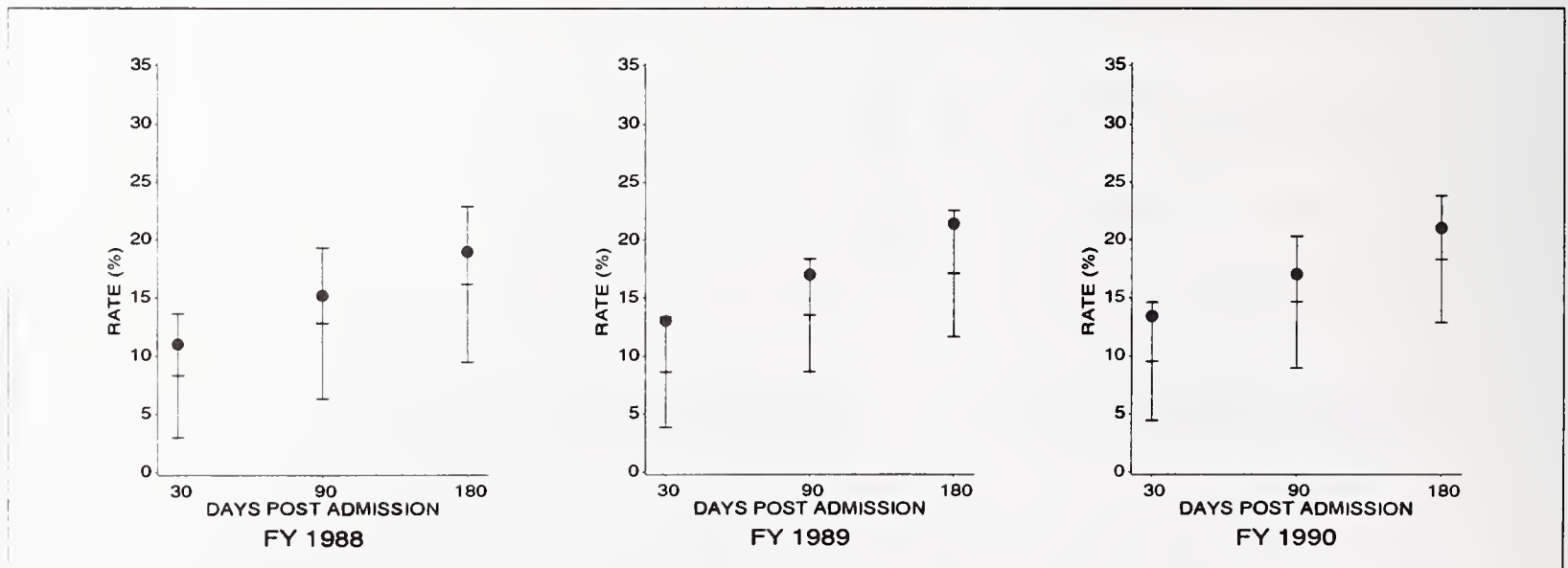
HILLVIEW DRIVE, BOX 485  
SCOTTSVILLE, KY 42164  
Medicare Provider Number: 180075

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 276             | 13.4                | 9.5  | 2.5   | 17.0    | 14.6 | 2.9   | 21.0     | 18.3 | 2.7   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 8               | 37.5                | 30.2 | ----- | 50.0    | 34.1 | ----- | 50.0     | 37.2 | ----- |
| Congestive Heart Failure.....              | 23              | 26.1                | 12.1 | ----- | 30.4    | 19.6 | ----- | 43.5     | 25.6 | ----- |
| Pneumonia/Influenza.....                   | 38              | 23.7                | 15.4 | ----- | 26.3    | 21.7 | ----- | 28.9     | 25.8 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 2               | 0.0                 | 9.1  | ----- | 0.0     | 15.4 | ----- | 0.0      | 21.2 | ----- |
| Transient Cerebral Ischemia.....           | 8               | 0.0                 | 1.4  | ----- | 0.0     | 3.4  | ----- | 25.0     | 6.0  | ----- |
| Stroke.....                                | 10              | 30.0                | 17.9 | ----- | 40.0    | 23.6 | ----- | 40.0     | 27.1 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 3               | 66.7                | 12.4 | ----- | 66.7    | 15.1 | ----- | 66.7     | 18.6 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 1               | 0.0                 | 0.4  | ----- | 0.0     | 1.0  | ----- | 0.0      | 1.7  | ----- |
| Cholecystectomy.....                       | 2               | 0.0                 | 0.8  | ----- | 0.0     | 1.5  | ----- | 0.0      | 2.2  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# ALLEN COUNTY WAR MEMORIAL HOSPITAL

Medicare Provider Number: 180075

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.2 years  
Proportion female..... 62.3 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 77.2 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 2.2 %  
Admitted for emergency..... 3.6 %

### COMORBIDITIES:

Cancer..... 4.3 %  
Chronic cardiovascular disease..... 28.3 %  
Chronic liver disease..... 0.4 %  
Chronic renal disease..... 2.5 %  
Chronic pulmonary disease..... 9.8 %  
Cerebrovascular degeneration..... 9.1 %  
Diabetes mellitus..... 5.8 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 87.1 %  
State..... 9.1 %  
Outside State..... 3.8 %  
Total..... 100.0 %

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 7.1 Days  
State..... 8.2 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 52  
Occupancy Rate..... 40.0 %  
Ownership/Control..... Local Government  
Medicare Discharges..... 56.1 %  
Case Mix Index (CMI)..... 0.9644

### STAFFING:

Total Number of Physicians..... 5  
Percent of Physicians Board  
Certified Specialists..... 60.0 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 12  
Licensed Practical Nurses..... 16

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# ARH REGIONAL MEDICAL CENTER

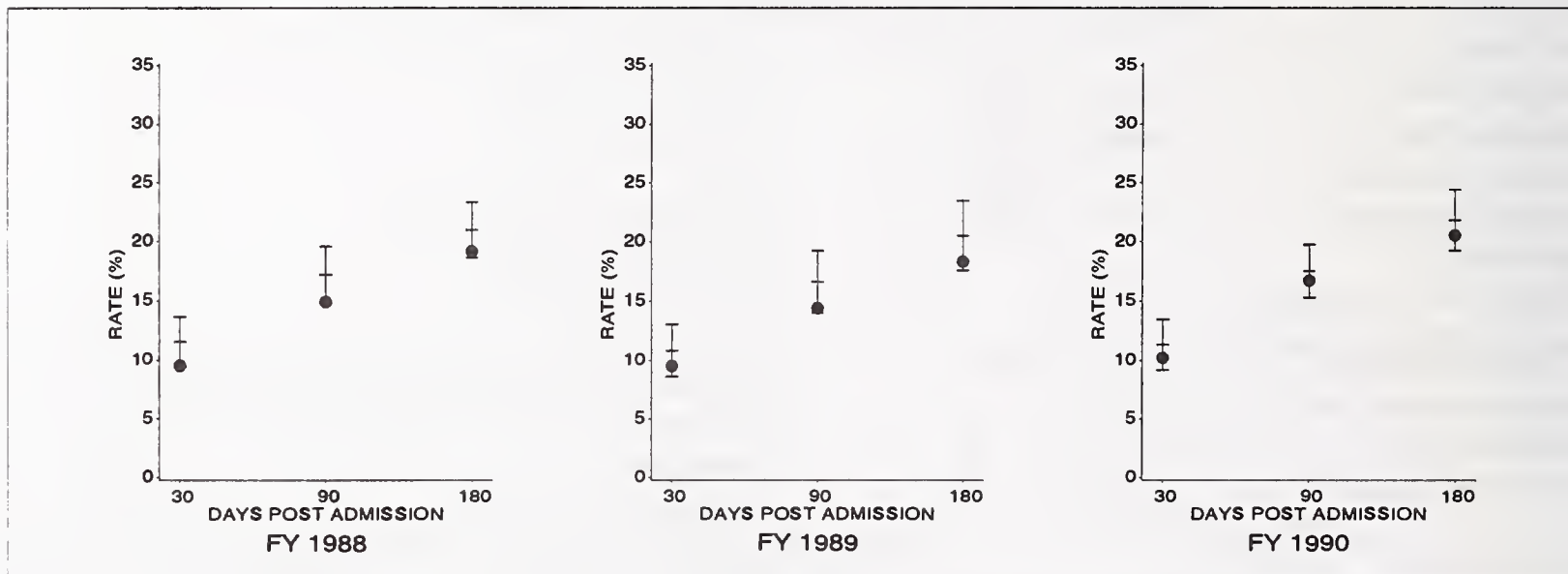
100 MEDICAL CENTER DRIVE  
HAZARD, KY 41701  
Medicare Provider Number: 180029

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1437               | 10.2                | 11.3 | 1.1   | 16.7    | 17.5 | 1.1   | 20.5     | 21.8 | 1.3   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 45                 | 28.9                | 24.1 | ----- | 33.3    | 28.2 | ----- | 37.8     | 31.1 | ----- |
| Congestive Heart Failure.....              | 64                 | 15.6                | 13.9 | 6.0   | 23.4    | 22.6 | 7.2   | 32.8     | 29.0 | 7.3   |
| Pneumonia/Influenza.....                   | 154                | 13.0                | 14.9 | 4.4   | 18.8    | 20.9 | 3.9   | 23.4     | 24.7 | 4.4   |
| Chronic Obstructive Pulmonary Disease..... | 40                 | 7.5                 | 8.6  | ----- | 15.0    | 16.7 | ----- | 20.0     | 23.1 | ----- |
| Transient Cerebral Ischemia.....           | 17                 | 0.0                 | 1.7  | ----- | 0.0     | 3.8  | ----- | 0.0      | 6.3  | ----- |
| Stroke.....                                | 47                 | 17.0                | 19.3 | ----- | 27.7    | 26.5 | ----- | 29.8     | 30.6 | ----- |
| Hip Fracture.....                          | 15                 | 13.3                | 4.8  | ----- | 13.3    | 8.7  | ----- | 13.3     | 11.8 | ----- |
| Sepsis.....                                | 22                 | 31.8                | 25.1 | ----- | 59.1    | 34.8 | ----- | 63.6     | 40.5 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 9                  | 0.0                 | 7.2  | ----- | 0.0     | 14.5 | ----- | 11.1     | 19.9 | ----- |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 5                  | 20.0                | 10.4 | ----- | 20.0    | 16.1 | ----- | 40.0     | 18.7 | ----- |
| Open Reduction of Hip Fracture.....        | 9                  | 11.1                | 4.0  | ----- | 11.1    | 7.4  | ----- | 11.1     | 10.2 | ----- |
| Prostatectomy.....                         | 72                 | 1.4                 | 1.3  | 1.3   | 2.8     | 3.0  | 2.3   | 2.8      | 5.3  | 3.4   |
| Cholecystectomy.....                       | 28                 | 0.0                 | 1.6  | ----- | 0.0     | 2.8  | ----- | 3.6      | 3.7  | ----- |
| Hysterectomy.....                          | 6                  | 0.0                 | 0.2  | ----- | 0.0     | 0.5  | ----- | 0.0      | 0.9  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# ARH REGIONAL MEDICAL CENTER

Medicare Provider Number: 180029

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 72.8 years  
Proportion female..... 49.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 95.9 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 74.1 %

### COMORBIDITIES:

Cancer..... 9.6 %  
Chronic cardiovascular disease..... 39.0 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 4.2 %  
Chronic pulmonary disease..... 38.8 %  
Cerebrovascular degeneration..... 3.9 %  
Diabetes mellitus..... 12.4 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 56.6%  
State ..... 42.3%  
Outside State ..... 1.1%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.0 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 150  
Occupancy Rate ..... 86.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 34.9 %  
Case Mix Index (CMI) ..... 1.2607

### STAFFING:

Total Number of Physicians..... 48  
Percent of Physicians Board  
Certified Specialists..... 58.3 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 83  
Licensed Practical Nurses ..... 72

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# BAPTIST HOSPITAL EAST

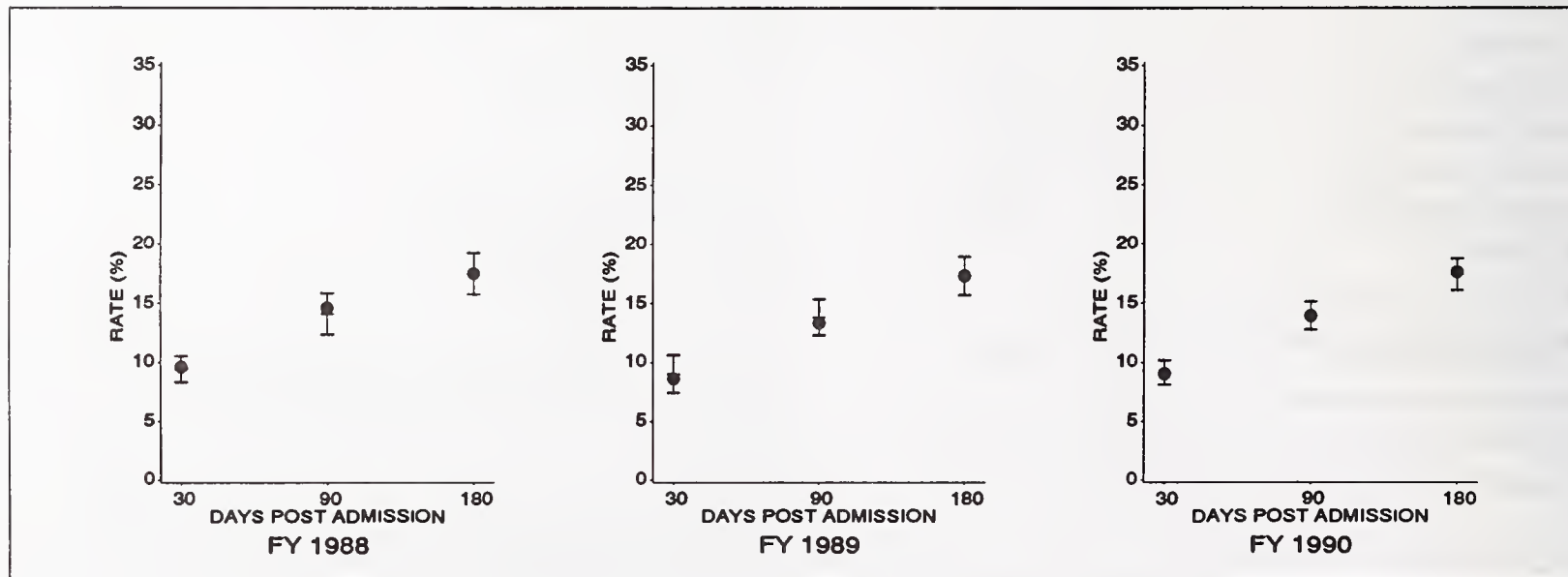
4000 KRESGE WAY  
LOUISVILLE, KY 40207  
Medicare Provider Number: 180130

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 3550               | 9.0                 | 9.1  | 0.5   | 13.9    | 13.9 | 0.6   | 17.6     | 17.4 | 0.7   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 92                 | 26.1                | 31.0 | 8.8   | 27.2    | 34.0 | 9.5   | 30.4     | 36.8 | 9.9   |
| Congestive Heart Failure.....              | 154                | 14.9                | 14.6 | 2.9   | 24.7    | 23.3 | 4.7   | 33.1     | 29.5 | 5.8   |
| Pneumonia/Influenza.....                   | 190                | 16.8                | 16.4 | 3.0   | 26.3    | 22.5 | 3.8   | 31.1     | 26.5 | 4.6   |
| Chronic Obstructive Pulmonary Disease..... | 52                 | 17.3                | 5.2  | 6.8   | 19.2    | 9.7  | 6.5   | 25.0     | 13.1 | 7.6   |
| Transient Cerebral Ischemia.....           | 57                 | 1.8                 | 2.2  | 3.2   | 7.0     | 4.9  | 5.2   | 12.3     | 7.7  | 6.7   |
| Stroke.....                                | 121                | 23.1                | 20.9 | 4.3   | 28.1    | 28.3 | 4.1   | 30.6     | 32.2 | 4.9   |
| Hip Fracture.....                          | 131                | 3.8                 | 6.4  | 3.4   | 7.6     | 11.2 | 4.7   | 9.2      | 14.5 | 5.1   |
| Sepsis.....                                | 59                 | 40.7                | 28.1 | 9.0   | 45.8    | 36.1 | 9.3   | 52.5     | 40.7 | 8.6   |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 28                 | 0.0                 | 2.7  | ----- | 3.6     | 5.6  | ----- | 3.6      | 8.3  | ----- |
| Carotid Endarterectomy.....                | 31                 | 0.0                 | 1.1  | ----- | 0.0     | 2.0  | ----- | 0.0      | 3.0  | ----- |
| Hip Replacement/Reconstruction.....        | 91                 | 4.4                 | 4.0  | 4.4   | 5.5     | 7.3  | 4.8   | 7.7      | 9.7  | 4.1   |
| Open Reduction of Hip Fracture.....        | 37                 | 2.7                 | 6.2  | ----- | 10.8    | 11.1 | ----- | 10.8     | 14.7 | ----- |
| Prostatectomy.....                         | 129                | 0.8                 | 0.9  | 0.9   | 0.8     | 2.1  | 1.4   | 0.8      | 3.7  | 2.1   |
| Cholecystectomy.....                       | 92                 | 2.2                 | 1.9  | 2.0   | 3.3     | 3.6  | 2.6   | 4.3      | 4.8  | 2.5   |
| Hysterectomy.....                          | 58                 | 0.0                 | 0.5  | 1.0   | 0.0     | 1.2  | 1.8   | 1.7      | 2.0  | 1.9   |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



**BAPTIST HOSPITAL EAST**  
Medicare Provider Number: 180130

**FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES**

**DEMOGRAPHICS:**

Average age at admission..... 75.7 years  
Proportion female..... 60.3 %

**ADMISSION SOURCES/TYPES:**

Referred by personal or HMO physician..... 46.1 %  
Transferred from skilled nursing facility..... 0.1 %  
Admitted for elective procedure..... 28.1 %  
Admitted for emergency..... 70.0 %

**COMORBIDITIES:**

Cancer..... 9.5 %  
Chronic cardiovascular disease..... 33.3 %  
Chronic liver disease..... 1.0 %  
Chronic renal disease..... 1.9 %  
Chronic pulmonary disease..... 16.0 %  
Cerebrovascular degeneration..... 4.0 %  
Diabetes mellitus..... 6.4 %

**ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\***

**ORIGIN OF MEDICARE PATIENT ADMISSION:**

County/City ..... 80.4%  
State ..... 14.8%  
Outside State ..... 4.8%  
Total ..... 100.0%

**MEDICARE AVERAGE LENGTH OF STAY:**

Hospital ..... 8.9 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

**HOSPITAL CHARACTERISTICS\***

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

**PROFILE:**

Total Beds ..... 369  
Occupancy Rate ..... 77.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 39.7 %  
Case Mix Index (CMI) ..... 1.3558

**STAFFING:**

Total Number of Physicians..... 291  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 405  
Licensed Practical Nurses ..... 27

**SPECIALTY SERVICES:**

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

**OTHER SPECIALTY/HOSPITAL-BASED SERVICES:**

Alcohol/Drug ..... Yes  
Rehabilitation..... Yes  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



# BAPTIST REGIONAL MEDICAL CENTER

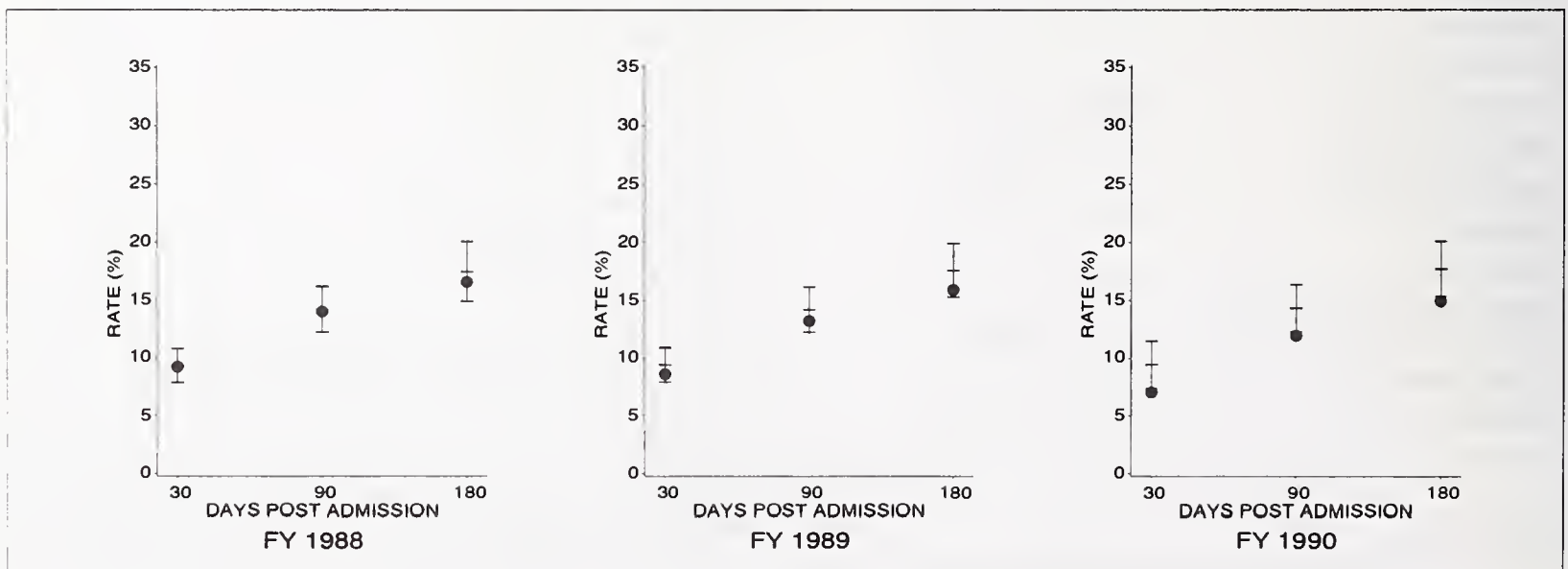
1 TRILLIUM WAY  
CORBIN, KY 40701  
Medicare Provider Number: 180080

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1777            | 7.0                 | 9.4  | 1.0   | 11.9    | 14.3 | 1.0   | 14.9     | 17.7 | 1.2   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 49              | 30.6                | 27.7 | ----- | 36.7    | 31.2 | ----- | 38.8     | 34.0 | ----- |
| Congestive Heart Failure.....              | 63              | 7.9                 | 14.4 | 7.4   | 19.0    | 22.4 | 7.0   | 22.2     | 28.4 | 8.3   |
| Pneumonia/Influenza.....                   | 50              | 10.0                | 15.9 | ----- | 20.0    | 21.8 | ----- | 20.0     | 25.7 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 70              | 2.9                 | 5.9  | 4.2   | 8.6     | 11.0 | 5.5   | 10.0     | 15.1 | 6.6   |
| Transient Cerebral Ischemia.....           | 44              | 2.3                 | 2.1  | ----- | 4.5     | 4.6  | ----- | 4.5      | 7.3  | ----- |
| Stroke.....                                | 74              | 20.3                | 20.6 | 6.5   | 27.0    | 28.4 | 6.4   | 32.4     | 32.7 | 7.4   |
| Hip Fracture.....                          | 67              | 7.5                 | 8.7  | 6.1   | 11.9    | 14.8 | 7.6   | 13.4     | 18.7 | 8.1   |
| Sepsis.....                                | 23              | 26.1                | 25.8 | ----- | 39.1    | 34.4 | ----- | 39.1     | 38.9 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 10              | 10.0                | 3.4  | ----- | 10.0    | 6.9  | ----- | 30.0     | 10.0 | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 32              | 3.1                 | 4.9  | ----- | 9.4     | 8.7  | ----- | 9.4      | 11.4 | ----- |
| Open Reduction of Hip Fracture.....        | 43              | 4.7                 | 7.9  | ----- | 4.7     | 14.1 | ----- | 7.0      | 18.2 | ----- |
| Prostatectomy.....                         | 56              | 1.8                 | 1.0  | 1.6   | 1.8     | 2.4  | 2.1   | 3.6      | 4.0  | 2.7   |
| Cholecystectomy.....                       | 45              | 0.0                 | 2.3  | ----- | 2.2     | 4.3  | ----- | 2.2      | 5.8  | ----- |
| Hysterectomy.....                          | 14              | 0.0                 | 0.1  | ----- | 0.0     | 0.1  | ----- | 0.0      | 0.2  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# BAPTIST REGIONAL MEDICAL CENTER

Medicare Provider Number: 180080

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 73.5 years  
Proportion female..... 58.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 41.7 %  
Transferred from skilled nursing facility..... 2.9 %  
Admitted for elective procedure..... 11.0 %  
Admitted for emergency..... 85.9 %

### COMORBIDITIES:

Cancer..... 5.7 %  
Chronic cardiovascular disease..... 41.9 %  
Chronic liver disease..... 0.3 %  
Chronic renal disease..... 3.7 %  
Chronic pulmonary disease..... 23.6 %  
Cerebrovascular degeneration..... 5.1 %  
Diabetes mellitus..... 13.6 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 59.8%  
State ..... 36.1%  
Outside State ..... 4.1%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 9.6 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 210  
Occupancy Rate ..... 72.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 39.0 %  
Case Mix Index (CMI) ..... 1.1793

### STAFFING:

Total Number of Physicians..... 53  
Percent of Physicians Board  
Certified Specialists ..... 86.8 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 163  
Licensed Practical Nurses ..... 74

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation ..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

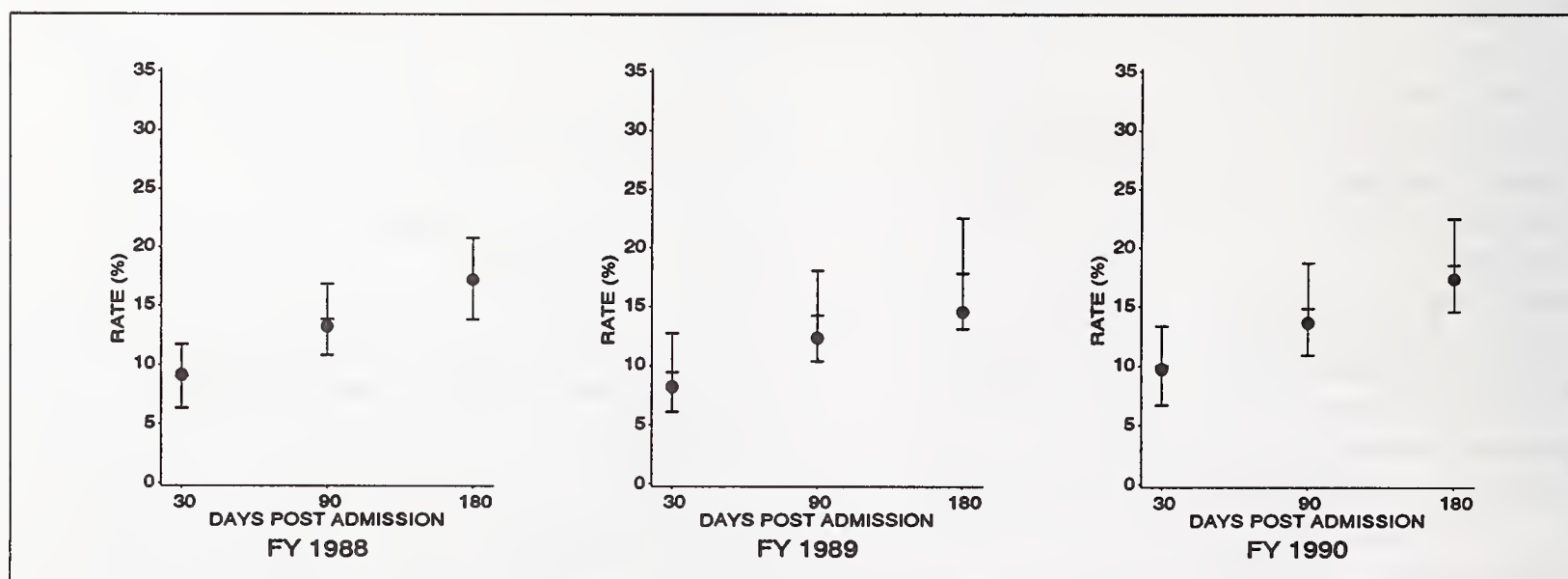
**BEREA HOSPITAL**  
 ESTILL ST  
 BERE, KY 40403  
 Medicare Provider Number: 180055

**FY 1990 MEDICARE HOSPITAL MORTALITY RATES**

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 568                | 9.7                 | 10.0 | 1.7   | 13.6    | 14.8 | 2.0   | 17.3     | 18.5 | 2.0   |
| <b>CONDITIONS:</b>                         |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 18                 | 22.2                | 22.8 | ----- | 22.2    | 25.8 | ----- | 33.3     | 28.7 | ----- |
| Congestive Heart Failure.....              | 27                 | 7.4                 | 15.9 | ----- | 11.1    | 24.5 | ----- | 22.2     | 30.7 | ----- |
| Pneumonia/Influenza.....                   | 36                 | 19.4                | 18.8 | ----- | 25.0    | 26.3 | ----- | 33.3     | 31.1 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 34                 | 5.9                 | 7.9  | ----- | 5.9     | 14.6 | ----- | 8.8      | 19.8 | ----- |
| Transient Cerebral Ischemia.....           | 11                 | 0.0                 | 1.1  | ----- | 0.0     | 2.8  | ----- | 0.0      | 5.0  | ----- |
| Stroke.....                                | 20                 | 15.0                | 17.6 | ----- | 30.0    | 23.8 | ----- | 35.0     | 27.4 | ----- |
| Hip Fracture.....                          | 10                 | 10.0                | 4.6  | ----- | 20.0    | 8.9  | ----- | 20.0     | 12.1 | ----- |
| Sepsis.....                                | 18                 | 50.0                | 30.8 | ----- | 50.0    | 37.7 | ----- | 55.6     | 41.6 | ----- |
| <b>PROCEDURES:</b>                         |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 1                  | 0.0                 | 5.6  | ----- | 0.0     | 15.0 | ----- | 0.0      | 26.0 | ----- |
| Open Reduction of Hip Fracture.....        | 7                  | 14.3                | 4.5  | ----- | 28.6    | 9.2  | ----- | 28.6     | 12.9 | ----- |
| Prostatectomy.....                         | 16                 | 0.0                 | 0.7  | ----- | 0.0     | 1.8  | ----- | 0.0      | 3.3  | ----- |
| Cholecystectomy.....                       | 8                  | 0.0                 | 0.9  | ----- | 0.0     | 1.6  | ----- | 0.0      | 2.1  | ----- |
| Hysterectomy.....                          | 2                  | 0.0                 | 0.3  | ----- | 0.0     | 0.7  | ----- | 0.0      | 1.1  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

**OBSERVED MORTALITY RATE (%) AND PREDICTED RANGE ( $\pm 2$  SD)  
 FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES**





**BEREA HOSPITAL**  
Medicare Provider Number: 180055

**FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES**

**DEMOGRAPHICS:**

Average age at admission..... 75.0 years  
Proportion female..... 57.6 %

**ADMISSION SOURCES/TYPES:**

Referred by personal or HMO physician..... 9.9 %  
Transferred from skilled nursing facility..... 0.2 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 1.8 %

**COMORBIDITIES:**

Cancer..... 5.6 %  
Chronic cardiovascular disease..... 28.5 %  
Chronic liver disease..... 0.7 %  
Chronic renal disease..... 2.6 %  
Chronic pulmonary disease..... 17.6 %  
Cerebrovascular degeneration..... 6.5 %  
Diabetes mellitus..... 4.9 %

**ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\***

**ORIGIN OF MEDICARE PATIENT ADMISSION:**

County/City ..... 59.7%  
State ..... 37.5%  
Outside State ..... 2.8%  
Total ..... 100.0%

**MEDICARE AVERAGE LENGTH OF STAY:**

Hospital ..... 6.0 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

**HOSPITAL CHARACTERISTICS\***

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

**PROFILE:**

Total Beds ..... 110  
Occupancy Rate ..... 74.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges .....(Not Available)  
Case Mix Index (CMI) ..... 1.0110

**STAFFING:**

Total Number of Physicians..... 31  
Percent of Physicians Board  
Certified Specialists..... 67.7 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 43  
Licensed Practical Nurses..... 10

**SPECIALTY SERVICES:**

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

**OTHER SPECIALTY/HOSPITAL-BASED SERVICES:**

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# BOURBON GENERAL HOSPITAL

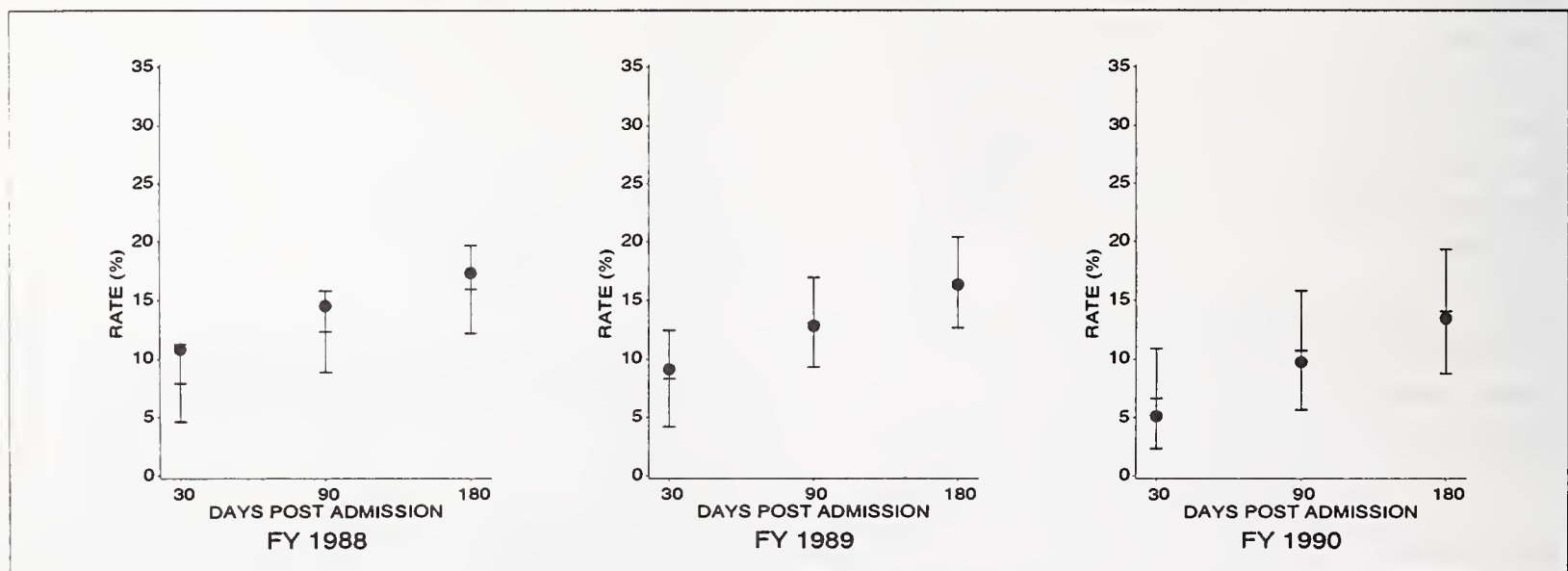
9 LINVILLE DR  
PARIS, KY 40361  
Medicare Provider Number: 180046

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 454                | 5.1                 | 6.6  | 2.1   | 9.7     | 10.7 | 2.5   | 13.4     | 14.0 | 2.6   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 6                  | 50.0                | 22.2 | ----- | 50.0    | 25.5 | ----- | 50.0     | 29.3 | ----- |
| Congestive Heart Failure.....              | 27                 | 14.8                | 14.9 | ----- | 29.6    | 24.0 | ----- | 40.7     | 31.2 | ----- |
| Pneumonia/Influenza.....                   | 23                 | 8.7                 | 14.0 | ----- | 13.0    | 19.4 | ----- | 13.0     | 23.1 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 16                 | 6.3                 | 5.1  | ----- | 12.5    | 10.1 | ----- | 18.8     | 14.2 | ----- |
| Transient Cerebral Ischemia.....           | 15                 | 0.0                 | 1.8  | ----- | 0.0     | 4.2  | ----- | 6.7      | 7.2  | ----- |
| Stroke.....                                | 15                 | 20.0                | 15.4 | ----- | 33.3    | 22.7 | ----- | 46.7     | 26.8 | ----- |
| Hip Fracture.....                          | 12                 | 0.0                 | 4.3  | ----- | 0.0     | 8.1  | ----- | 0.0      | 10.9 | ----- |
| Sepsis.....                                | 7                  | 0.0                 | 22.8 | ----- | 14.3    | 32.5 | ----- | 28.6     | 38.1 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 1                  | 0.0                 | 2.1  | ----- | 0.0     | 5.2  | ----- | 0.0      | 9.1  | ----- |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 2                  | 0.0                 | 2.9  | ----- | 0.0     | 6.1  | ----- | 0.0      | 8.4  | ----- |
| Open Reduction of Hip Fracture.....        | 10                 | 0.0                 | 3.9  | ----- | 0.0     | 7.6  | ----- | 0.0      | 10.5 | ----- |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 11                 | 0.0                 | 5.2  | ----- | 9.1     | 8.4  | ----- | 9.1      | 9.9  | ----- |
| Hysterectomy.....                          | 6                  | 0.0                 | 0.6  | ----- | 0.0     | 1.5  | ----- | 0.0      | 2.5  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# BOURBON GENERAL HOSPITAL

Medicare Provider Number: 180046

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 74.5 years  
Proportion female..... 64.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 32.8 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 68.5 %  
Admitted for emergency..... 28.9 %

### COMORBIDITIES:

Cancer..... 4.2 %  
Chronic cardiovascular disease..... 39.2 %  
Chronic liver disease..... 0.2 %  
Chronic renal disease..... 4.4 %  
Chronic pulmonary disease..... 24.0 %  
Cerebrovascular degeneration..... 6.2 %  
Diabetes mellitus..... 11.5 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 80.3%  
State ..... 18.9%  
Outside State ..... 0.8%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.3 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 58  
Occupancy Rate ..... 43.0 %  
Ownership/Control..... Private, For Profit  
Medicare Discharges ..... 48.6 %  
Case Mix Index (CMI) ..... 1.0059

### STAFFING:

Total Number of Physicians..... 13  
Percent of Physicians Board  
Certified Specialists ..... 84.6 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 34  
Licensed Practical Nurses ..... 6

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



# BRECKINRIDGE MEMORIAL HOSPITAL

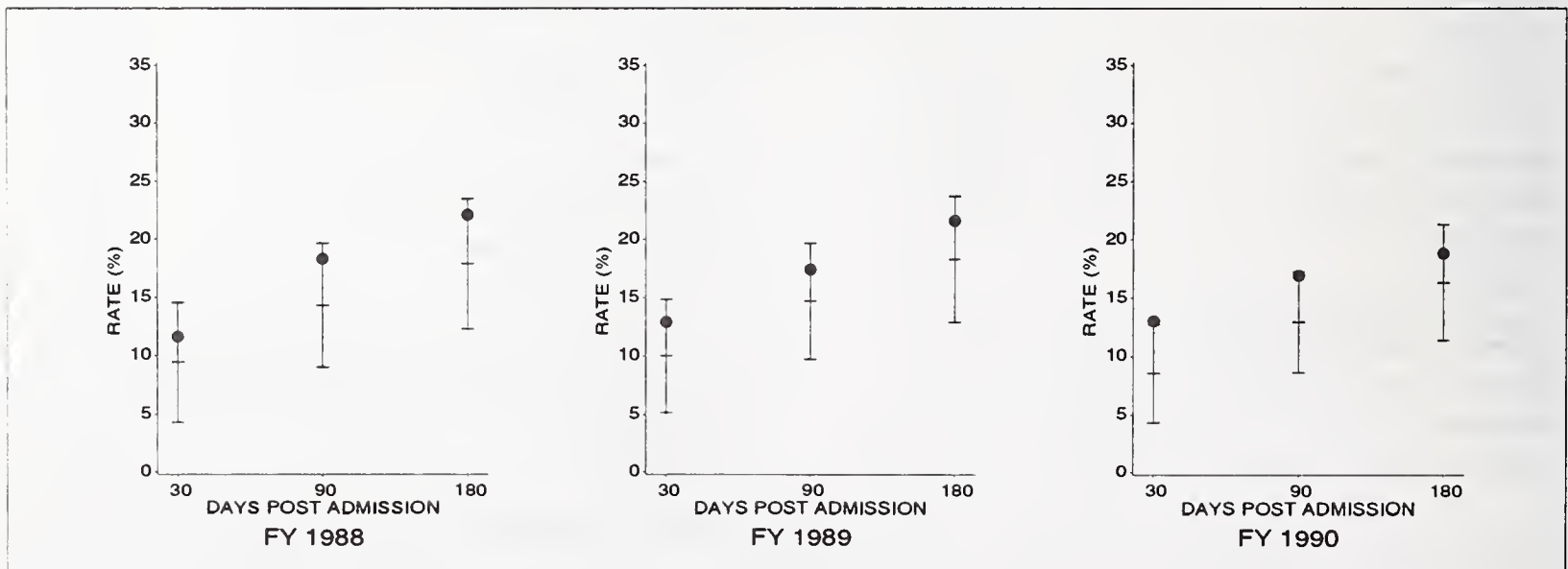
RT 1, BOX 133A  
HARDINSBURG, KY 40143  
Medicare Provider Number: 180094

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 362             | 13.0                | 8.5  | 2.1   | 16.9    | 12.9 | 2.2   | 18.8     | 16.3 | 2.5   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 12              | 25.0                | 35.2 | ----- | 33.3    | 38.9 | ----- | 41.7     | 43.3 | ----- |
| Congestive Heart Failure.....              | 20              | 25.0                | 13.1 | ----- | 35.0    | 21.0 | ----- | 40.0     | 26.8 | ----- |
| Pneumonia/Influenza.....                   | 40              | 12.5                | 14.1 | ----- | 12.5    | 19.3 | ----- | 12.5     | 22.8 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 10              | 10.0                | 5.2  | ----- | 10.0    | 9.4  | ----- | 10.0     | 13.0 | ----- |
| Transient Cerebral Ischemia.....           | 8               | 0.0                 | 1.6  | ----- | 12.5    | 3.7  | ----- | 12.5     | 6.5  | ----- |
| Stroke.....                                | 27              | 40.7                | 17.1 | ----- | 40.7    | 25.2 | ----- | 40.7     | 29.8 | ----- |
| Hip Fracture.....                          | 3               | 33.3                | 4.3  | ----- | 33.3    | 7.8  | ----- | 33.3     | 10.8 | ----- |
| Sepsis.....                                | 1               | 0.0                 | 23.9 | ----- | 0.0     | 28.2 | ----- | 0.0      | 33.0 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 1               | 0.0                 | 3.8  | ----- | 0.0     | 7.2  | ----- | 0.0      | 10.8 | ----- |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 15              | 6.7                 | 1.0  | ----- | 6.7     | 2.2  | ----- | 6.7      | 3.6  | ----- |
| Cholecystectomy.....                       | 0               |                     |      |       |         |      |       |          |      |       |
| Hysterectomy.....                          | 2               | 0.0                 | 5.1  | ----- | 0.0     | 11.3 | ----- | 0.0      | 16.5 | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# BRECKINRIDGE MEMORIAL HOSPITAL

Medicare Provider Number: 180094

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.1 years  
Proportion female..... 51.9 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 93.6 %  
Transferred from skilled nursing facility..... 0.3 %  
Admitted for elective procedure..... 7.5 %  
Admitted for emergency..... 16.0 %

### COMORBIDITIES:

Cancer..... 5.8 %  
Chronic cardiovascular disease..... 39.8 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 2.2 %  
Chronic pulmonary disease..... 14.9 %  
Cerebrovascular degeneration..... 6.1 %  
Diabetes mellitus..... 7.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 86.2%  
State ..... 12.6%  
Outside State ..... 1.2%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 4.8 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 45  
Occupancy Rate ..... 48.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 57.4 %  
Case Mix Index (CMI) ..... 0.9688

### STAFFING:

Total Number of Physicians..... 6  
Percent of Physicians Board  
Certified Specialists..... 33.3 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 22  
Licensed Practical Nurses ..... 6

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# CALDWELL COUNTY HOSPITAL

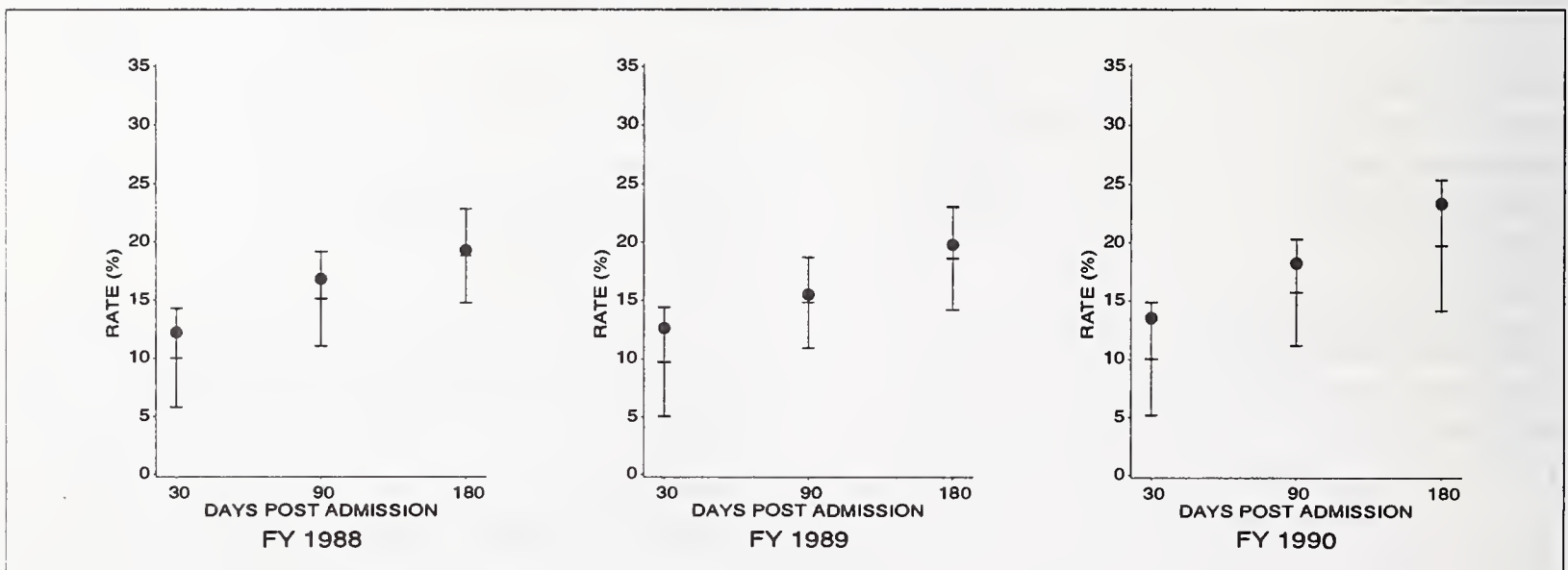
101 HOSPITAL DRIVE, BOX 410  
PRINCETON, KY 42445  
Medicare Provider Number: 180054

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 407             | 13.5                | 10.0 | 2.4   | 18.2    | 15.7 | 2.3   | 23.3     | 19.7 | 2.8   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 3               | 0.0                 | 17.5 | ----- | 0.0     | 19.7 | ----- | 0.0      | 22.7 | ----- |
| Congestive Heart Failure.....              | 32              | 25.0                | 16.0 | ----- | 31.3    | 24.8 | ----- | 37.5     | 31.2 | ----- |
| Pneumonia/Influenza.....                   | 29              | 27.6                | 14.2 | ----- | 34.5    | 19.7 | ----- | 34.5     | 23.5 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 14              | 14.3                | 7.7  | ----- | 28.6    | 14.0 | ----- | 28.6     | 19.2 | ----- |
| Transient Cerebral Ischemia.....           | 14              | 0.0                 | 1.6  | ----- | 0.0     | 3.8  | ----- | 7.1      | 6.5  | ----- |
| Stroke.....                                | 21              | 9.5                 | 16.8 | ----- | 9.5     | 22.6 | ----- | 19.0     | 26.5 | ----- |
| Hip Fracture.....                          | 12              | 8.3                 | 7.1  | ----- | 16.7    | 13.0 | ----- | 16.7     | 17.2 | ----- |
| Sepsis.....                                | 0               |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 4               | 0.0                 | 4.3  | ----- | 0.0     | 8.4  | ----- | 0.0      | 11.5 | ----- |
| Open Reduction of Hip Fracture.....        | 3               | 0.0                 | 5.5  | ----- | 33.3    | 9.5  | ----- | 33.3     | 13.4 | ----- |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 8               | 0.0                 | 2.1  | ----- | 12.5    | 4.2  | ----- | 12.5     | 6.2  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# CALDWELL COUNTY HOSPITAL

Medicare Provider Number: 180054

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 79.0 years  
Proportion female..... 65.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 64.4 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.7 %  
Admitted for emergency..... 6.4 %

### COMORBIDITIES:

Cancer..... 4.2 %  
Chronic cardiovascular disease..... 32.7 %  
Chronic liver disease..... 0.2 %  
Chronic renal disease..... 2.9 %  
Chronic pulmonary disease..... 13.3 %  
Cerebrovascular degeneration..... 9.8 %  
Diabetes mellitus..... 7.6 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 67.2%  
State..... 30.9%  
Outside State..... 1.9%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 5.4 Days  
State..... 8.2 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 45  
Occupancy Rate..... 37.0 %  
Ownership/Control..... Local Government  
Medicare Discharges..... 51.9 %  
Case Mix Index (CMI)..... 1.0460

### STAFFING:

Total Number of Physicians..... 6  
Percent of Physicians Board  
Certified Specialists..... 83.3 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 26  
Licensed Practical Nurses..... 19

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... No  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# CARROLL COUNTY MEMORIAL HOSPITAL

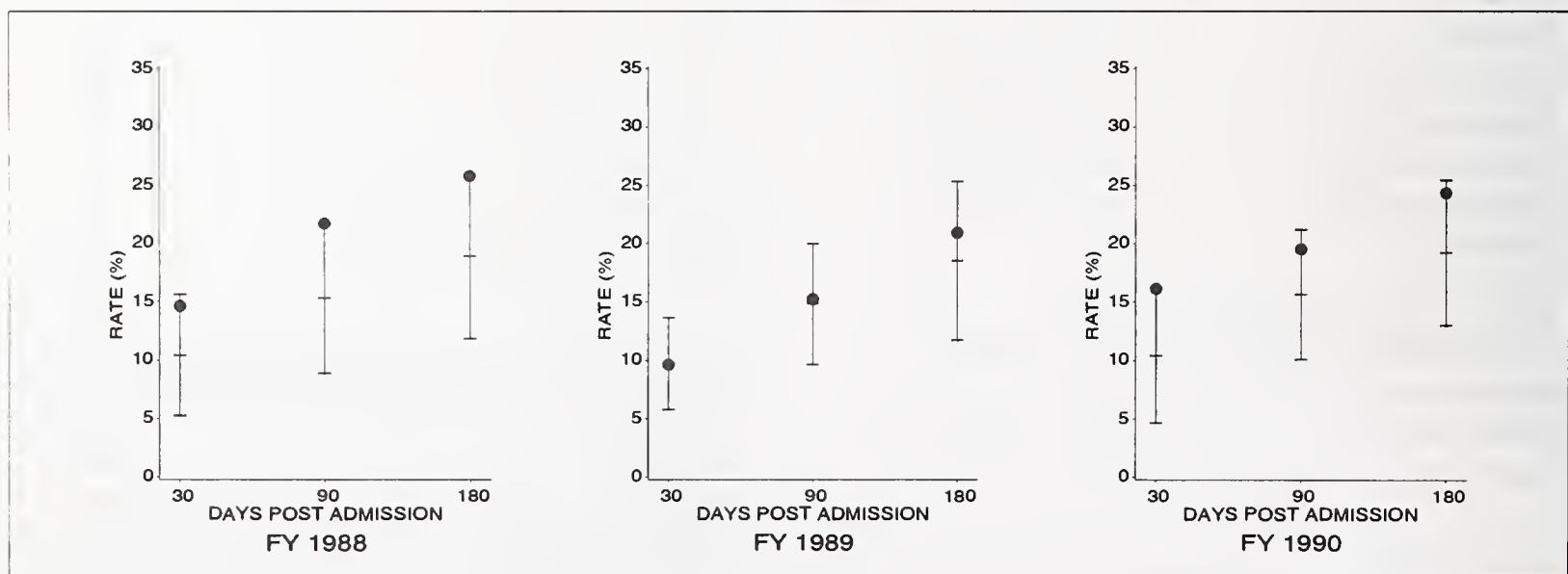
309 ELEVENTH ST  
CARROLLTON, KY 41008  
Medicare Provider Number: 180042

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 267                | 16.1                | 10.4 | 2.9   | 19.5    | 15.6 | 2.8   | 24.3     | 19.2 | 3.1   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 6                  | 66.7                | 23.0 | ----- | 66.7    | 26.3 | ----- | 66.7     | 29.9 | ----- |
| Congestive Heart Failure.....              | 19                 | 47.4                | 14.0 | ----- | 52.6    | 21.3 | ----- | 52.6     | 26.7 | ----- |
| Pneumonia/Influenza.....                   | 41                 | 19.5                | 14.6 | ----- | 24.4    | 20.0 | ----- | 31.7     | 23.6 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 2                  | 0.0                 | 8.8  | ----- | 0.0     | 13.9 | ----- | 0.0      | 17.5 | ----- |
| Transient Cerebral Ischemia.....           | 4                  | 0.0                 | 3.3  | ----- | 0.0     | 7.2  | ----- | 25.0     | 11.0 | ----- |
| Stroke.....                                | 14                 | 35.7                | 19.9 | ----- | 35.7    | 26.5 | ----- | 42.9     | 30.5 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 4                  | 50.0                | 21.3 | ----- | 50.0    | 25.8 | ----- | 50.0     | 30.2 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 1                  | 0.0                 | 1.2  | ----- | 0.0     | 2.8  | ----- | 0.0      | 5.0  | ----- |
| Cholecystectomy.....                       | 2                  | 0.0                 | 0.8  | ----- | 0.0     | 1.5  | ----- | 0.0      | 2.0  | ----- |
| Hysterectomy.....                          | 0                  |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# CARROLL COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 180042

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.1 years  
Proportion female..... 60.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 33.7 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 0.4 %

### COMORBIDITIES:

Cancer..... 3.7 %  
Chronic cardiovascular disease..... 37.5 %  
Chronic liver disease..... 0.4 %  
Chronic renal disease..... 1.5 %  
Chronic pulmonary disease..... 24.0 %  
Cerebrovascular degeneration..... 2.6 %  
Diabetes mellitus..... 6.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 51.9%  
State ..... 43.0%  
Outside State ..... 5.1%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.1 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 37  
Occupancy Rate ..... 50.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 60.4 %  
Case Mix Index (CMI) ..... 1.0681

### STAFFING:

Total Number of Physicians..... 7  
Percent of Physicians Board  
Certified Specialists ..... 14.3 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 20  
Licensed Practical Nurses ..... 5

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# CASEY COUNTY WAR MEMORIAL HOSPITAL

RT 2, BOX 569A  
LIBERTY, KY 42539  
Medicare Provider Number: 180062

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|--------------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                    | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                    | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 43                 | 20.9                | 11.7 | ---- | 27.9    | 16.7 | ---- | 30.2     | 20.6 | ---- |
| CONDITIONS:                                |                    |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 2                  | 50.0                | 55.3 | ---- | 50.0    | 59.6 | ---- | 50.0     | 62.9 | ---- |
| Congestive Heart Failure.....              | 2                  | 50.0                | 10.0 | ---- | 50.0    | 15.5 | ---- | 50.0     | 19.1 | ---- |
| Pneumonia/Influenza.....                   | 6                  | 16.7                | 18.0 | ---- | 33.3    | 24.8 | ---- | 50.0     | 29.3 | ---- |
| Chronic Obstructive Pulmonary Disease..... | 2                  | 0.0                 | 5.3  | ---- | 0.0     | 9.0  | ---- | 0.0      | 12.0 | ---- |
| Transient Cerebral Ischemia.....           | 4                  | 25.0                | 6.9  | ---- | 50.0    | 15.9 | ---- | 50.0     | 25.4 | ---- |
| Stroke.....                                | 3                  | 66.7                | 19.5 | ---- | 66.7    | 24.4 | ---- | 66.7     | 27.9 | ---- |
| Hip Fracture.....                          | 0                  |                     |      |      |         |      |      |          |      |      |
| Sepsis.....                                | 0                  |                     |      |      |         |      |      |          |      |      |
| PROCEDURES:                                |                    |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0                  |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |      |         |      |      |          |      |      |
| Carotid Endarterectomy.....                | 0                  |                     |      |      |         |      |      |          |      |      |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |      |         |      |      |          |      |      |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |      |         |      |      |          |      |      |
| Prostatectomy.....                         | 0                  |                     |      |      |         |      |      |          |      |      |
| Cholecystectomy.....                       | 0                  |                     |      |      |         |      |      |          |      |      |
| Hysterectomy.....                          | 0                  |                     |      |      |         |      |      |          |      |      |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (\*) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES

No Graphs are presented when the standard deviation  
was not computed for one or more of the three fiscal years,  
(1988, 1989, or 1990)

# CASEY COUNTY WAR MEMORIAL HOSPITAL

Medicare Provider Number: 180062

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.7 years  
Proportion female..... 44.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 34.9 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 0.0 %

### COMORBIDITIES:

Cancer..... 4.7 %  
Chronic cardiovascular disease..... 27.9 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 2.3 %  
Chronic pulmonary disease..... 11.6 %  
Cerebrovascular degeneration..... 11.6 %  
Diabetes mellitus..... 4.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 94.5%  
State ..... 5.5%  
Outside State ..... 0.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.3 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 24  
Occupancy Rate ..... 29.0 %  
Ownership/Control..... Local Government  
Medicare Discharges .....(Not Available)  
Case Mix Index (CMI) ..... 0.9042

### STAFFING:

Total Number of Physicians..... (Not Available)  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... (Not Available)  
Registered Nurses..... (Not Available)  
Licensed Practical Nurses ..... (Not Available)

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# CAVERNA MEMORIAL HOSPITAL

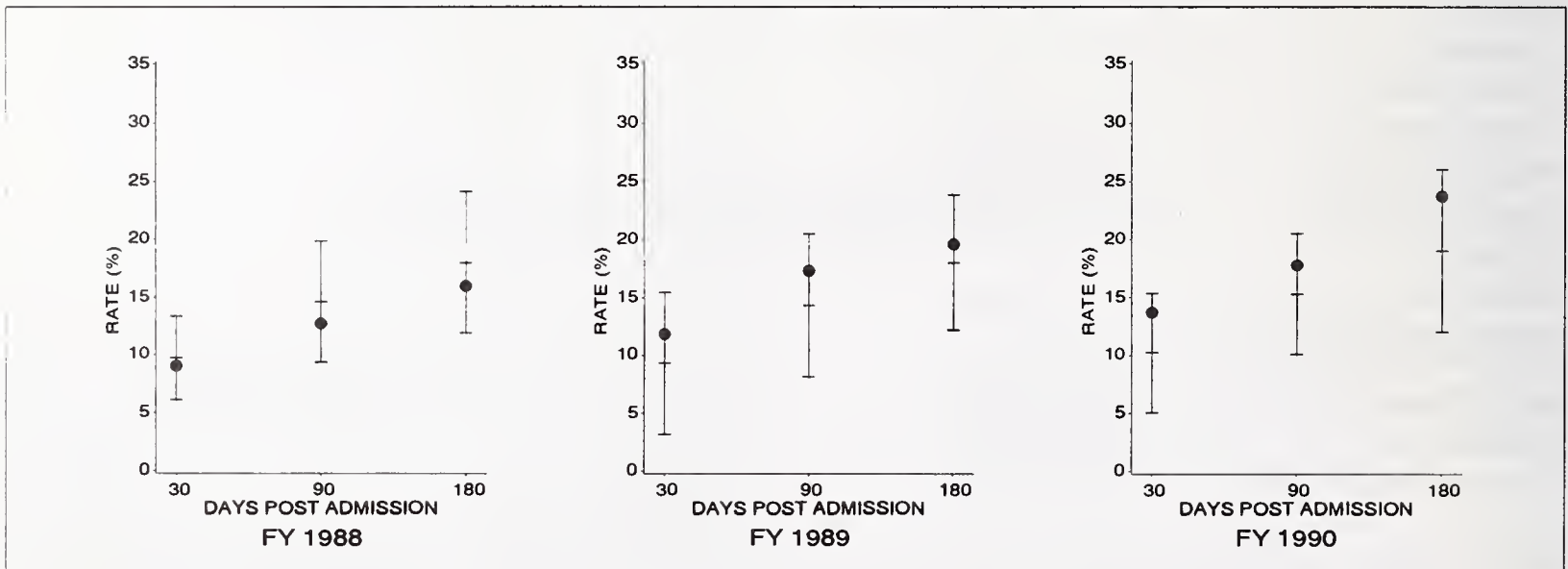
S 31 W, BOX 120  
HORSE CAVE, KY 42749  
Medicare Provider Number: 180118

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 241                | 13.7                | 10.2 | 2.6   | 17.8    | 15.3 | 2.6   | 23.7     | 19.0 | 3.5   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 9                  | 55.6                | 21.8 | ----- | 55.6    | 24.3 | ----- | 55.6     | 27.1 | ----- |
| Congestive Heart Failure.....              | 26                 | 11.5                | 15.9 | ----- | 26.9    | 25.7 | ----- | 46.2     | 33.1 | ----- |
| Pneumonia/Influenza.....                   | 24                 | 8.3                 | 12.4 | ----- | 8.3     | 17.2 | ----- | 12.5     | 20.4 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 7                  | 28.6                | 8.4  | ----- | 28.6    | 14.4 | ----- | 28.6     | 18.3 | ----- |
| Transient Cerebral Ischemia.....           | 4                  | 0.0                 | 1.5  | ----- | 0.0     | 3.6  | ----- | 0.0      | 5.9  | ----- |
| Stroke.....                                | 11                 | 36.4                | 13.4 | ----- | 45.5    | 17.4 | ----- | 45.5     | 20.2 | ----- |
| Hip Fracture.....                          | 3                  | 33.3                | 5.3  | ----- | 33.3    | 8.8  | ----- | 66.7     | 12.4 | ----- |
| Sepsis.....                                | 2                  | 0.0                 | 24.7 | ----- | 0.0     | 34.5 | ----- | 0.0      | 40.4 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 3                  | 33.3                | 4.7  | ----- | 33.3    | 8.2  | ----- | 66.7     | 11.7 | ----- |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 3                  | 0.0                 | 0.3  | ----- | 0.0     | 0.5  | ----- | 0.0      | 0.7  | ----- |
| Hysterectomy.....                          | 1                  | 0.0                 | 4.9  | ----- | 0.0     | 10.8 | ----- | 0.0      | 15.5 | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# CAVERNA MEMORIAL HOSPITAL

Medicare Provider Number: 180118

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.5 years  
Proportion female..... 57.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 32.4 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 17.8 %

### COMORBIDITIES:

Cancer..... 5.4 %  
Chronic cardiovascular disease..... 31.1 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 1.2 %  
Chronic pulmonary disease..... 12.0 %  
Cerebrovascular degeneration..... 2.5 %  
Diabetes mellitus..... 9.5 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 68.6%  
State ..... 30.9%  
Outside State ..... 0.5%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.0 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 28  
Occupancy Rate ..... 39.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 42.8 %  
Case Mix Index (CMI) ..... 0.9949

### STAFFING:

Total Number of Physicians..... 8  
Percent of Physicians Board  
Certified Specialists ..... 75.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 13  
Licensed Practical Nurses ..... 7

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# CENTRAL BAPTIST HOSPITAL

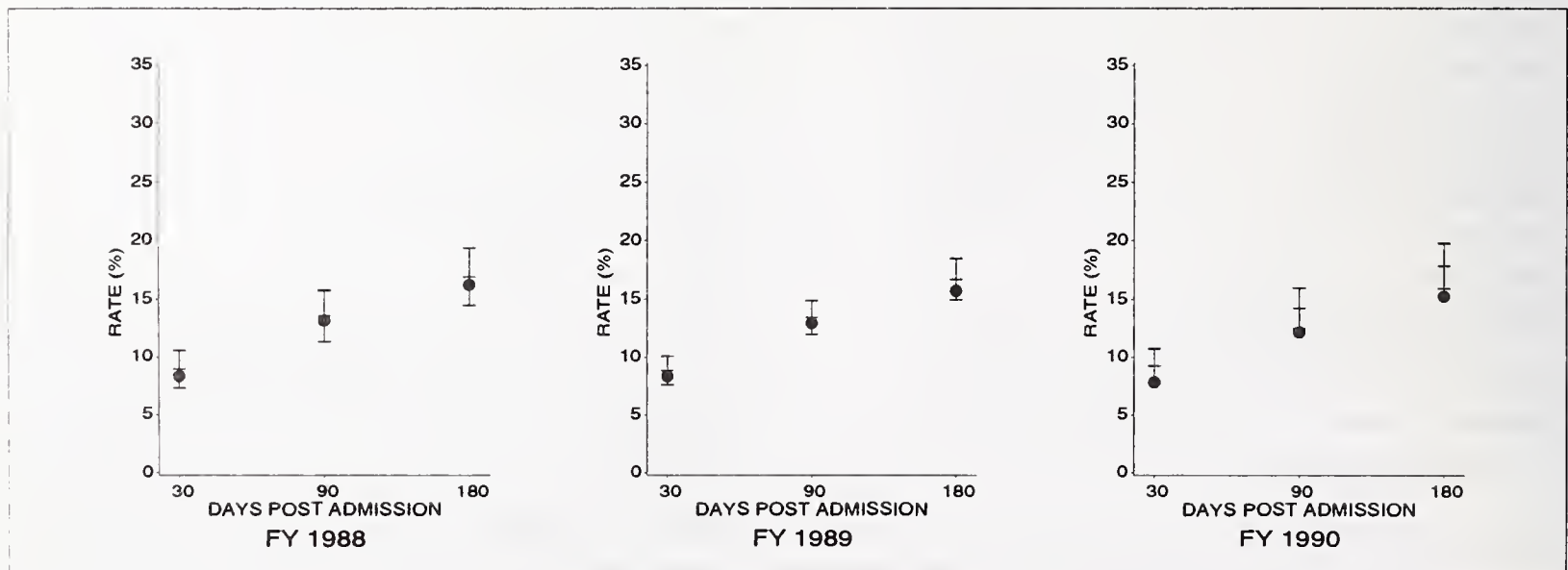
1740 NICHOLASVILLE RD  
LEXINGTON, KY 40503  
Medicare Provider Number: 180103

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 2475            | 7.8                 | 9.2  | 0.8   | 12.1    | 14.2 | 0.9   | 15.2     | 17.8 | 1.0   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 70              | 12.9                | 21.4 | 7.0   | 21.4    | 24.9 | 6.6   | 24.3     | 27.7 | 6.4   |
| Congestive Heart Failure.....              | 89              | 12.4                | 15.3 | 4.5   | 22.5    | 24.1 | 4.7   | 33.7     | 30.2 | 5.3   |
| Pneumonia/Influenza.....                   | 105             | 13.3                | 15.1 | 4.8   | 19.0    | 20.8 | 4.2   | 21.9     | 24.7 | 4.8   |
| Chronic Obstructive Pulmonary Disease..... | 27              | 7.4                 | 8.8  | ----- | 11.1    | 15.7 | ----- | 18.5     | 20.8 | ----- |
| Transient Cerebral Ischemia.....           | 35              | 2.9                 | 1.5  | ----- | 5.7     | 3.3  | ----- | 5.7      | 5.3  | ----- |
| Stroke.....                                | 78              | 17.9                | 19.5 | 5.5   | 23.1    | 25.6 | 6.8   | 25.6     | 29.2 | 8.2   |
| Hip Fracture.....                          | 60              | 3.3                 | 6.8  | 4.5   | 6.7     | 11.5 | 6.2   | 8.3      | 14.7 | 7.4   |
| Sepsis.....                                | 22              | 31.8                | 26.1 | ----- | 31.8    | 35.1 | ----- | 31.8     | 39.9 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 20              | 10.0                | 5.3  | ----- | 10.0    | 8.4  | ----- | 10.0     | 10.5 | ----- |
| Coronary Artery Bypass Graft.....          | 91              | 5.5                 | 5.2  | 2.5   | 6.6     | 7.6  | 3.3   | 7.7      | 8.7  | 3.6   |
| Initial Pacemaker Insertion.....           | 40              | 2.5                 | 3.3  | ----- | 5.0     | 6.8  | ----- | 7.5      | 10.1 | ----- |
| Carotid Endarterectomy.....                | 18              | 0.0                 | 1.9  | ----- | 0.0     | 3.5  | ----- | 0.0      | 5.1  | ----- |
| Hip Replacement/Reconstruction.....        | 79              | 2.5                 | 3.2  | 2.3   | 3.8     | 5.5  | 3.8   | 3.8      | 7.1  | 5.1   |
| Open Reduction of Hip Fracture.....        | 26              | 0.0                 | 4.8  | ----- | 3.8     | 8.5  | ----- | 7.7      | 11.3 | ----- |
| Prostatectomy.....                         | 101             | 1.0                 | 1.1  | 1.1   | 1.0     | 2.5  | 2.0   | 2.0      | 4.2  | 2.8   |
| Cholecystectomy.....                       | 62              | 0.0                 | 3.5  | 3.7   | 3.2     | 6.8  | 4.9   | 6.5      | 9.2  | 4.8   |
| Hysterectomy.....                          | 32              | 0.0                 | 0.5  | ----- | 0.0     | 1.0  | ----- | 0.0      | 1.7  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# CENTRAL BAPTIST HOSPITAL

Medicare Provider Number: 180103

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 72.7 years  
Proportion female..... 56.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 47.2 %  
Transferred from skilled nursing facility..... 0.6 %  
Admitted for elective procedure..... 21.9 %  
Admitted for emergency..... 59.4 %

### COMORBIDITIES:

Cancer..... 7.9 %  
Chronic cardiovascular disease..... 44.1 %  
Chronic liver disease..... 1.1 %  
Chronic renal disease..... 4.9 %  
Chronic pulmonary disease..... 27.2 %  
Cerebrovascular degeneration..... 2.5 %  
Diabetes mellitus..... 8.5 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 35.1%  
State ..... 62.4%  
Outside State ..... 2.5%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 9.3 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 339  
Occupancy Rate ..... 67.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 29.9 %  
Case Mix Index (CMI) ..... 1.6834

### STAFFING:

Total Number of Physicians..... 179  
Percent of Physicians Board  
Certified Specialists ..... 92.2 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 396  
Licensed Practical Nurses ..... 33

\*\* Except for CMI

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\* Not used in calculating mortality rates



# CLARK REGIONAL MEDICAL CENTER

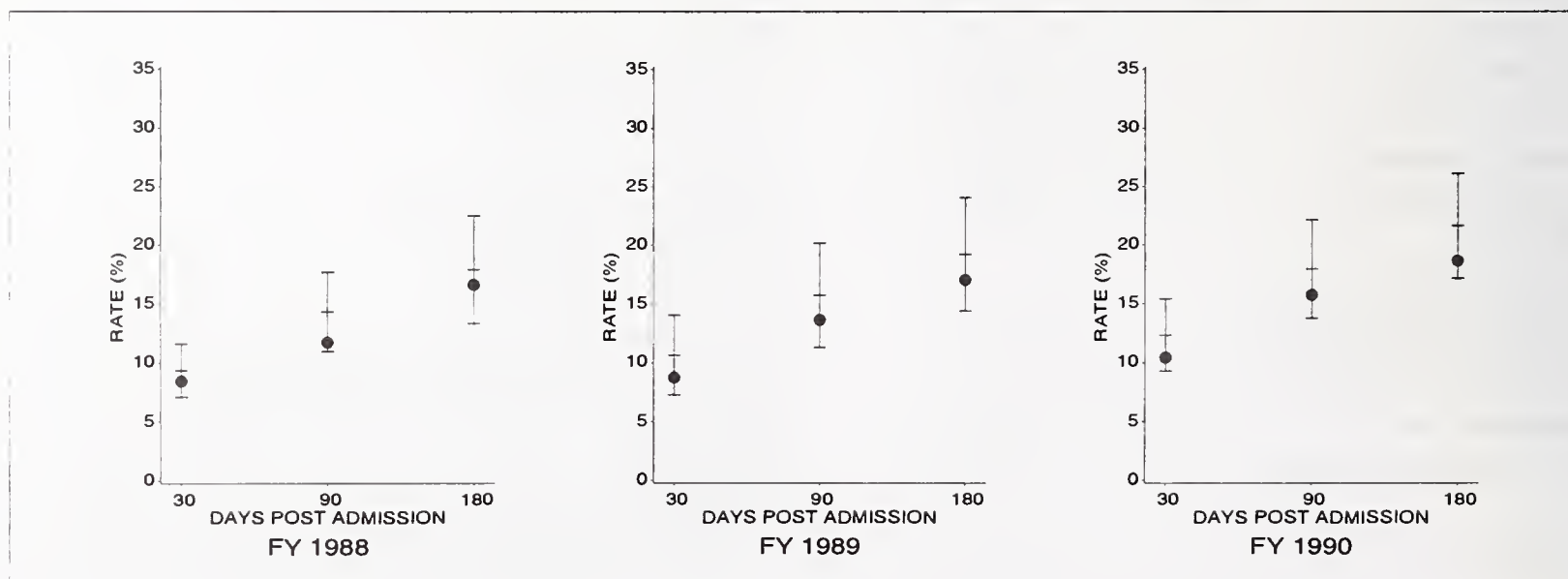
1107 W LEXINGTON AVE  
WINCHESTER, KY 40391  
Medicare Provider Number: 180092

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 714             | 10.4                | 12.3 | 1.5   | 15.7    | 17.9 | 2.1   | 18.6     | 21.6 | 2.3   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 26              | 34.6                | 27.5 | ----- | 38.5    | 31.2 | ----- | 42.3     | 34.4 | ----- |
| Congestive Heart Failure.....              | 58              | 12.1                | 14.2 | 4.9   | 20.7    | 22.4 | 6.2   | 22.4     | 28.4 | 8.3   |
| Pneumonia/Influenza.....                   | 70              | 8.6                 | 16.6 | 6.0   | 11.4    | 22.3 | 7.4   | 12.9     | 25.9 | 8.1   |
| Chronic Obstructive Pulmonary Disease..... | 16              | 6.3                 | 7.9  | ----- | 6.3     | 14.2 | ----- | 6.3      | 18.6 | ----- |
| Transient Cerebral Ischemia.....           | 24              | 4.2                 | 1.9  | ----- | 4.2     | 4.3  | ----- | 8.3      | 7.3  | ----- |
| Stroke.....                                | 26              | 19.2                | 22.5 | ----- | 34.6    | 29.8 | ----- | 38.5     | 33.8 | ----- |
| Hip Fracture.....                          | 20              | 5.0                 | 8.4  | ----- | 10.0    | 15.0 | ----- | 15.0     | 19.3 | ----- |
| Sepsis.....                                | 11              | 27.3                | 34.6 | ----- | 54.5    | 42.4 | ----- | 63.6     | 46.7 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 4               | 0.0                 | 4.8  | ----- | 0.0     | 9.7  | ----- | 0.0      | 14.2 | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 3               | 0.0                 | 7.2  | ----- | 0.0     | 12.6 | ----- | 0.0      | 16.3 | ----- |
| Open Reduction of Hip Fracture.....        | 11              | 0.0                 | 6.3  | ----- | 9.1     | 11.8 | ----- | 9.1      | 15.7 | ----- |
| Prostatectomy.....                         | 4               | 0.0                 | 1.0  | ----- | 0.0     | 2.5  | ----- | 0.0      | 4.5  | ----- |
| Cholecystectomy.....                       | 18              | 5.6                 | 3.2  | ----- | 5.6     | 6.3  | ----- | 5.6      | 8.4  | ----- |
| Hysterectomy.....                          | 6               | 0.0                 | 0.2  | ----- | 0.0     | 0.6  | ----- | 0.0      | 0.9  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# CLARK REGIONAL MEDICAL CENTER

Medicare Provider Number: 180092

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.4 years  
Proportion female..... 63.3 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 26.2 %  
Transferred from skilled nursing facility..... 1.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 97.3 %

### COMORBIDITIES:

Cancer..... 5.3 %  
Chronic cardiovascular disease..... 39.1 %  
Chronic liver disease..... 0.7 %  
Chronic renal disease..... 2.1 %  
Chronic pulmonary disease..... 15.8 %  
Cerebrovascular degeneration..... 4.9 %  
Diabetes mellitus..... 6.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 65.8%  
State ..... 32.2%  
Outside State ..... 2.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.5 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 100  
Occupancy Rate ..... 42.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 40.8 %  
Case Mix Index (CMI) ..... 1.1237

### STAFFING:

Total Number of Physicians..... 36  
Percent of Physicians Board  
Certified Specialists..... 66.7 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 68  
Licensed Practical Nurses..... 11

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# CLINTON COUNTY HOSPITAL INC

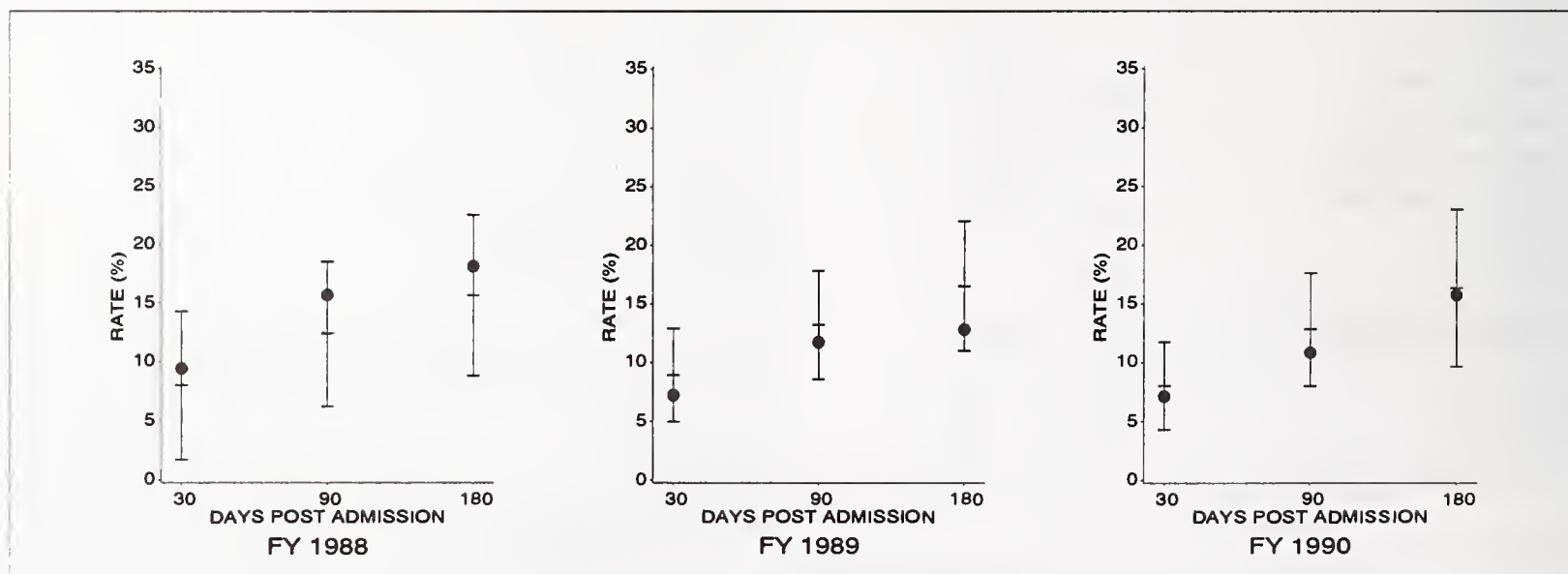
723 BURKESVILLE RD  
ALBANY, KY 42602  
Medicare Provider Number: 180106

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 268                | 7.1                 | 8.0  | 1.9   | 10.8    | 12.8 | 2.4   | 15.7     | 16.3 | 3.3   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 4                  | 50.0                | 27.4 | ----- | 50.0    | 30.2 | ----- | 75.0     | 32.8 | ----- |
| Congestive Heart Failure.....              | 5                  | 20.0                | 13.9 | ----- | 20.0    | 22.3 | ----- | 40.0     | 28.4 | ----- |
| Pneumonia/Influenza.....                   | 22                 | 18.2                | 15.1 | ----- | 27.3    | 21.2 | ----- | 31.8     | 24.8 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 20                 | 5.0                 | 6.8  | ----- | 5.0     | 13.0 | ----- | 10.0     | 17.9 | ----- |
| Transient Cerebral Ischemia.....           | 5                  | 0.0                 | 2.1  | ----- | 0.0     | 4.3  | ----- | 0.0      | 6.9  | ----- |
| Stroke.....                                | 6                  | 33.3                | 18.9 | ----- | 33.3    | 23.9 | ----- | 33.3     | 27.3 | ----- |
| Hip Fracture.....                          | 1                  | 0.0                 | 7.7  | ----- | 0.0     | 15.9 | ----- | 0.0      | 21.2 | ----- |
| Sepsis.....                                | 0                  |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 0                  |                     |      |       |         |      |       |          |      |       |
| Hysterectomy.....                          | 0                  |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# CLINTON COUNTY HOSPITAL INC

Medicare Provider Number: 180106

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 72.2 years  
Proportion female..... 56.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 36.8 %  
Transferred from skilled nursing facility..... 5.2 %  
Admitted for elective procedure..... 36.8 %  
Admitted for emergency..... 17.8 %

### COMORBIDITIES:

Cancer..... 4.8 %  
Chronic cardiovascular disease..... 45.7 %  
Chronic liver disease..... 1.1 %  
Chronic renal disease..... 3.7 %  
Chronic pulmonary disease..... 21.2 %  
Cerebrovascular degeneration..... 2.2 %  
Diabetes mellitus..... 9.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 71.9%  
State ..... 18.1%  
Outside State ..... 10.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.9 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 42  
Occupancy Rate ..... 50.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 51.5 %  
Case Mix Index (CMI) ..... 0.8976

### STAFFING:

Total Number of Physicians..... 3  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 9  
Licensed Practical Nurses..... 12

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# COMMUNITY HOSPITAL

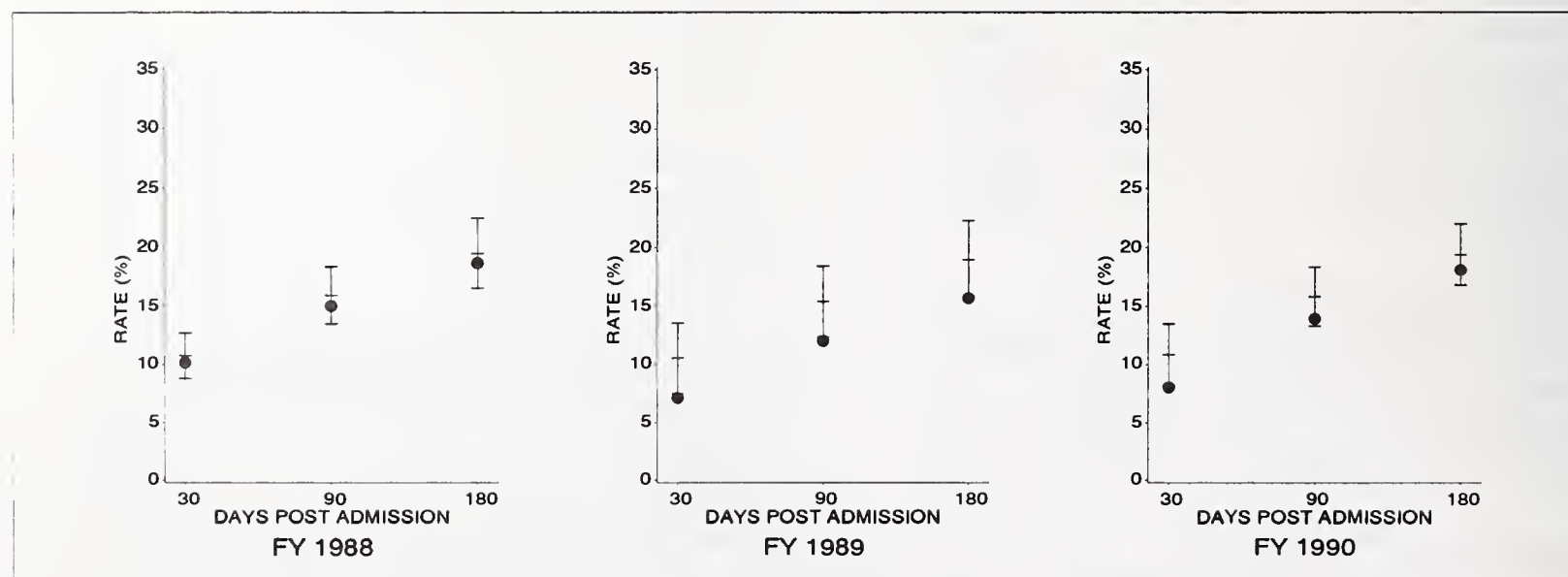
206 W SOUTH ST  
MAYFIELD, KY 42066  
Medicare Provider Number: 180116

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1060            | 8.0                 | 10.8 | 1.3   | 13.9    | 15.8 | 1.3   | 18.1     | 19.4 | 1.3   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 53              | 22.6                | 26.6 | 8.4   | 28.3    | 30.9 | 8.8   | 32.1     | 34.4 | 8.1   |
| Congestive Heart Failure.....              | 49              | 4.1                 | 16.9 | ----- | 10.2    | 26.9 | ----- | 16.3     | 34.3 | ----- |
| Pneumonia/Influenza.....                   | 85              | 11.8                | 14.6 | 8.1   | 15.3    | 20.4 | 8.0   | 17.6     | 24.0 | 8.3   |
| Chronic Obstructive Pulmonary Disease..... | 19              | 5.3                 | 4.1  | ----- | 10.5    | 7.9  | ----- | 10.5     | 11.1 | ----- |
| Transient Cerebral Ischemia.....           | 24              | 0.0                 | 1.7  | ----- | 0.0     | 3.9  | ----- | 8.3      | 6.5  | ----- |
| Stroke.....                                | 53              | 17.0                | 23.6 | 6.7   | 28.3    | 30.4 | 6.6   | 34.0     | 34.3 | 6.9   |
| Hip Fracture.....                          | 25              | 12.0                | 6.8  | ----- | 16.0    | 12.8 | ----- | 20.0     | 17.1 | ----- |
| Sepsis.....                                | 9               | 22.2                | 21.4 | ----- | 22.2    | 28.1 | ----- | 22.2     | 31.6 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 7               | 0.0                 | 3.8  | ----- | 0.0     | 6.5  | ----- | 0.0      | 9.1  | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 21              | 9.5                 | 5.0  | ----- | 14.3    | 10.0 | ----- | 19.0     | 13.4 | ----- |
| Open Reduction of Hip Fracture.....        | 11              | 18.2                | 7.5  | ----- | 18.2    | 14.7 | ----- | 18.2     | 19.9 | ----- |
| Prostatectomy.....                         | 22              | 4.5                 | 0.7  | ----- | 9.1     | 1.6  | ----- | 13.6     | 2.8  | ----- |
| Cholecystectomy.....                       | 18              | 0.0                 | 3.7  | ----- | 0.0     | 5.8  | ----- | 0.0      | 6.8  | ----- |
| Hysterectomy.....                          | 12              | 8.3                 | 0.2  | ----- | 8.3     | 0.5  | ----- | 16.7     | 1.0  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# COMMUNITY HOSPITAL

Medicare Provider Number: 180116

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.2 years  
Proportion female..... 61.3 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 40.0 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 14.0 %  
Admitted for emergency..... 82.5 %

### COMORBIDITIES:

Cancer..... 5.8 %  
Chronic cardiovascular disease..... 38.3 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 4.1 %  
Chronic pulmonary disease..... 22.0 %  
Cerebrovascular degeneration..... 5.8 %  
Diabetes mellitus..... 8.4 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 82.3%  
State ..... 15.6%  
Outside State ..... 2.1%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 7.6 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 107  
Occupancy Rate ..... 56.0 %  
Ownership/Control..... Private, For Profit  
Medicare Discharges ..... 43.8 %  
Case Mix Index (CMI) ..... 1.2443

### STAFFING:

Total Number of Physicians..... 23  
Percent of Physicians Board  
Certified Specialists ..... 60.9 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 36  
Licensed Practical Nurses ..... 31

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



# COMMUNITY UNITED METHODIST HOSPITAL \*\*

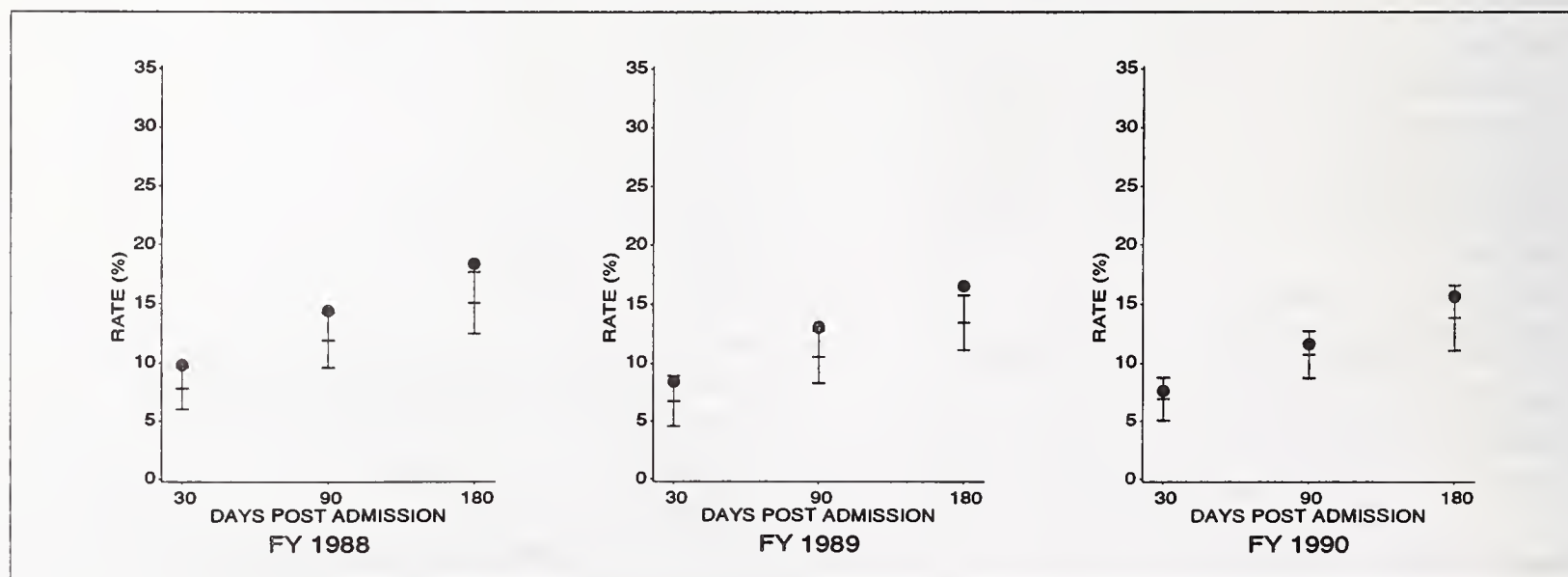
1305 N ELM ST  
HENDERSON, KY 42420  
Medicare Provider Number: 180056

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1657            | 7.6                 | 6.9  | 0.9   | 11.6    | 10.7 | 1.0   | 15.6     | 13.8 | 1.4   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 53              | 22.6                | 23.4 | 5.8   | 26.4    | 26.4 | 6.2   | 30.2     | 29.1 | 6.6   |
| Congestive Heart Failure.....              | 86              | 16.3                | 15.9 | 4.0   | 24.4    | 25.1 | 4.7   | 32.6     | 31.7 | 5.4   |
| Pneumonia/Influenza.....                   | 149             | 10.7                | 14.4 | 3.4   | 16.8    | 19.9 | 3.9   | 25.5     | 23.8 | 4.9   |
| Chronic Obstructive Pulmonary Disease..... | 39              | 5.1                 | 4.5  | ----- | 7.7     | 8.5  | ----- | 15.4     | 12.0 | ----- |
| Transient Cerebral Ischemia.....           | 53              | 5.7                 | 1.4  | 3.5   | 5.7     | 3.4  | 3.8   | 7.5      | 5.7  | 4.3   |
| Stroke.....                                | 61              | 18.0                | 14.0 | 5.1   | 21.3    | 20.4 | 5.6   | 27.9     | 24.3 | 8.1   |
| Hip Fracture.....                          | 31              | 9.7                 | 5.8  | ----- | 12.9    | 10.8 | ----- | 19.4     | 14.6 | ----- |
| Sepsis.....                                | 10              | 40.0                | 25.5 | ----- | 60.0    | 33.1 | ----- | 60.0     | 37.7 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 15              | 6.7                 | 1.5  | ----- | 6.7     | 3.4  | ----- | 6.7      | 5.7  | ----- |
| Carotid Endarterectomy.....                | 4               | 0.0                 | 1.0  | ----- | 0.0     | 2.0  | ----- | 0.0      | 3.3  | ----- |
| Hip Replacement/Reconstruction.....        | 9               | 0.0                 | 3.0  | ----- | 0.0     | 5.8  | ----- | 0.0      | 8.2  | ----- |
| Open Reduction of Hip Fracture.....        | 18              | 11.1                | 6.0  | ----- | 16.7    | 11.5 | ----- | 22.2     | 15.5 | ----- |
| Prostatectomy.....                         | 36              | 0.0                 | 1.0  | ----- | 0.0     | 2.2  | ----- | 2.8      | 3.8  | ----- |
| Cholecystectomy.....                       | 37              | 2.7                 | 1.8  | ----- | 5.4     | 3.3  | ----- | 10.8     | 4.5  | ----- |
| Hysterectomy.....                          | 9               | 0.0                 | 0.4  | ----- | 0.0     | 1.0  | ----- | 0.0      | 1.8  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



\*\* This hospital says that it submitted inaccurate data to Medicare and that its predicted mortality rate should be higher than that presented above.

# COMMUNITY UNITED METHODIST HOSPITAL

Medicare Provider Number: 180056

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 73.8 years  
Proportion female..... 56.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 36.1 %  
Transferred from skilled nursing facility..... 0.2 %  
Admitted for elective procedure..... 80.4 %  
Admitted for emergency..... 16.5 %

### COMORBIDITIES:

Cancer..... 5.7 %  
Chronic cardiovascular disease..... 37.2 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 1.4 %  
Chronic pulmonary disease..... 19.5 %  
Cerebrovascular degeneration..... 3.3 %  
Diabetes mellitus..... 7.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 72.8%  
State..... 24.1%  
Outside State..... 3.1%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 6.9 Days  
State..... 8.2 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 213  
Occupancy Rate..... 54.0 %  
Ownership/Control..... Church  
Medicare Discharges..... 26.6 %  
Case Mix Index (CMI)..... 1.0459

### STAFFING:

Total Number of Physicians..... 60  
Percent of Physicians Board  
Certified Specialists..... 66.7 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 125  
Licensed Practical Nurses..... 54

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No  
OTHER SPECIALTY/HOSPITAL-BASED SERVICES:  
Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... Yes  
Medicare Swing Beds..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# CRITTENDEN COUNTY HOSPITAL

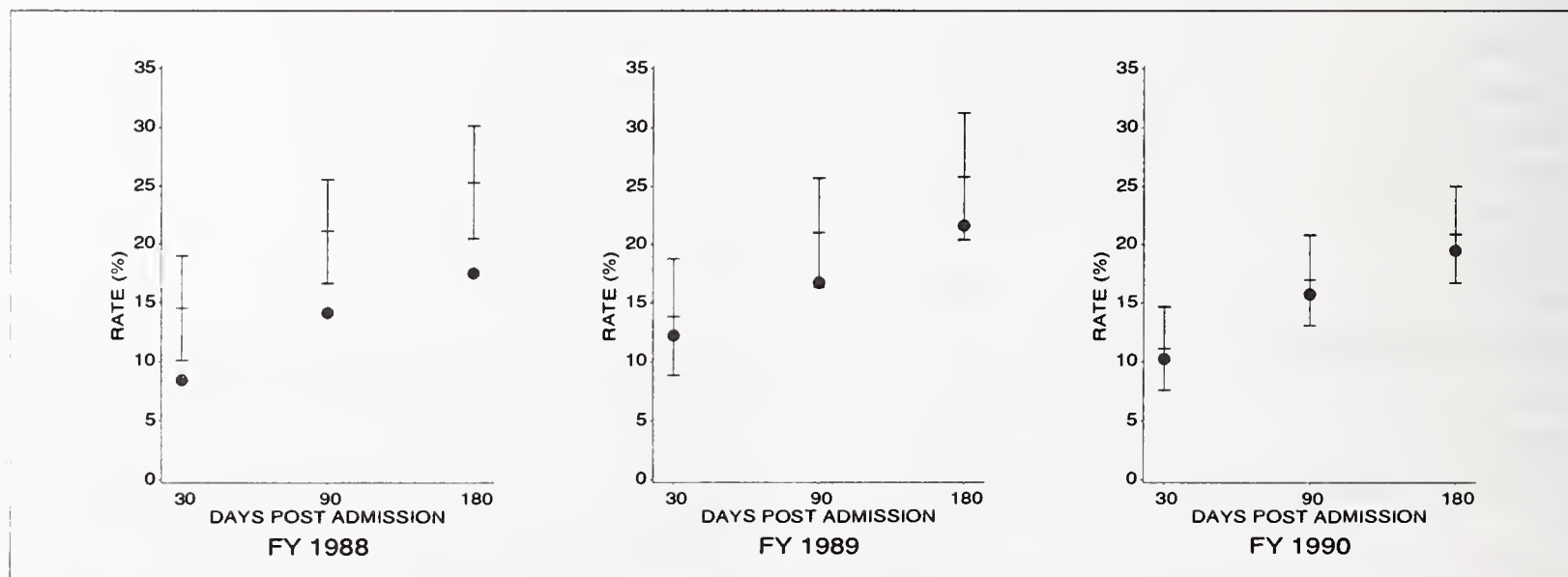
HIGHWAY 60 S, BOX 386  
MARION, KY 42064  
Medicare Provider Number: 180095

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 470             | 10.2                | 11.1 | 1.8   | 15.7    | 16.9 | 1.9   | 19.4     | 20.8 | 2.1   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 24              | 20.8                | 23.1 | ----- | 20.8    | 27.5 | ----- | 29.2     | 31.0 | ----- |
| Congestive Heart Failure.....              | 14              | 7.1                 | 18.2 | ----- | 14.3    | 28.0 | ----- | 21.4     | 35.1 | ----- |
| Pneumonia/Influenza.....                   | 39              | 23.1                | 15.9 | ----- | 28.2    | 21.7 | ----- | 30.8     | 25.1 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 12              | 0.0                 | 9.1  | ----- | 8.3     | 16.1 | ----- | 8.3      | 21.2 | ----- |
| Transient Cerebral Ischemia.....           | 13              | 0.0                 | 2.3  | ----- | 0.0     | 5.3  | ----- | 0.0      | 8.5  | ----- |
| Stroke.....                                | 16              | 31.3                | 24.6 | ----- | 43.8    | 32.7 | ----- | 43.8     | 37.6 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 5               | 20.0                | 27.6 | ----- | 60.0    | 42.5 | ----- | 60.0     | 50.6 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 0               |                     |      |       |         |      |       |          |      |       |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# CRITTENDEN COUNTY HOSPITAL

Medicare Provider Number: 180095

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 74.5 years  
Proportion female..... 61.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 52.6 %  
Transferred from skilled nursing facility..... 6.8 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 3.8 %

### COMORBIDITIES:

Cancer..... 6.4 %  
Chronic cardiovascular disease..... 50.9 %  
Chronic liver disease..... 0.2 %  
Chronic renal disease..... 6.2 %  
Chronic pulmonary disease..... 18.1 %  
Cerebrovascular degeneration..... 4.7 %  
Diabetes mellitus..... 3.6 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 68.8 %  
State ..... 30.4 %  
Outside State ..... 0.8 %  
Total ..... 100.0 %

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.8 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 37  
Occupancy Rate ..... 64.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 49.2 %  
Case Mix Index (CMI) ..... 1.0049

### STAFFING:

Total Number of Physicians..... (Not Available)  
Percent of Physicians Board  
Certified Specialists ..... (Not Available)  
Medical Residents/Interns ..... (Not Available)  
Registered Nurses..... (Not Available)  
Licensed Practical Nurses..... (Not Available)

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# CUMBERLAND COUNTY HOSPITAL

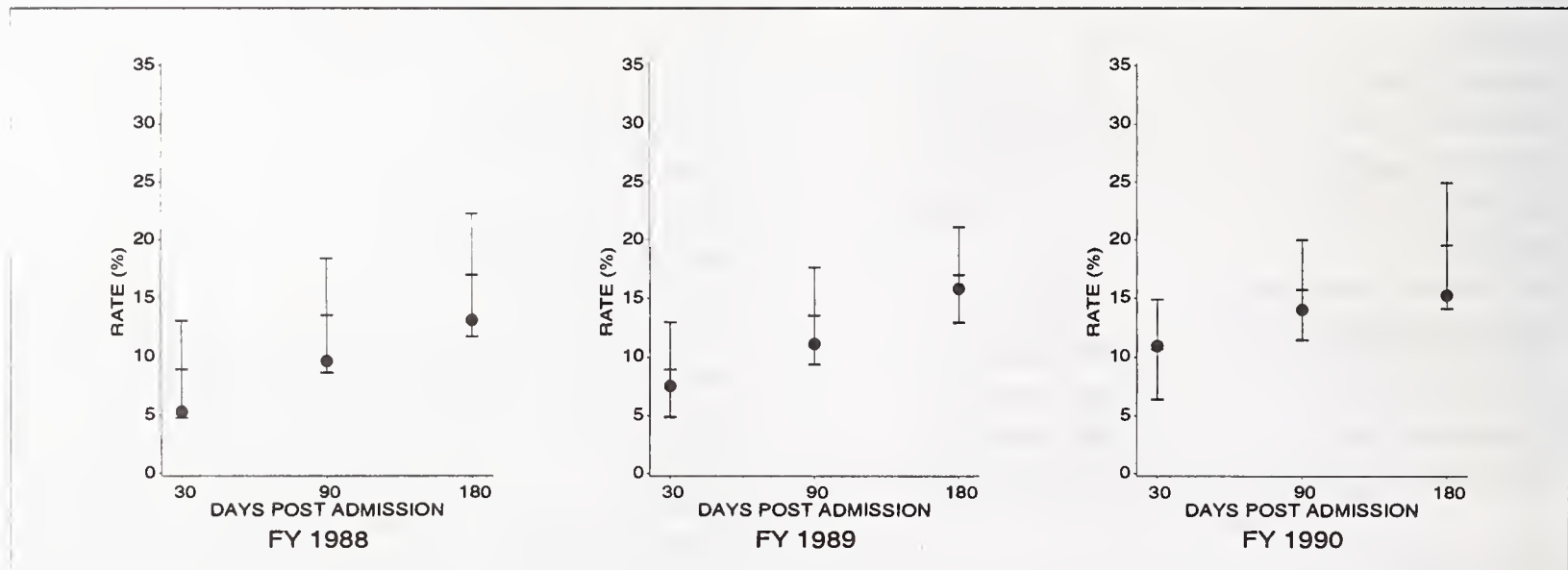
PO BOX 280  
BURKESVILLE, KY 42717  
Medicare Provider Number: 180108

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 387             | 10.9                | 10.6 | 2.1   | 14.0    | 15.7 | 2.1   | 15.2     | 19.5 | 2.7   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 5               | 60.0                | 38.8 | ----- | 60.0    | 41.1 | ----- | 60.0     | 43.9 | ----- |
| Congestive Heart Failure.....              | 27              | 22.2                | 18.7 | ----- | 22.2    | 29.5 | ----- | 22.2     | 36.4 | ----- |
| Pneumonia/Influenza.....                   | 25              | 16.0                | 17.1 | ----- | 20.0    | 22.8 | ----- | 20.0     | 26.7 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 11              | 18.2                | 6.7  | ----- | 18.2    | 12.7 | ----- | 18.2     | 17.5 | ----- |
| Transient Cerebral Ischemia.....           | 16              | 6.3                 | 4.9  | ----- | 6.3     | 9.9  | ----- | 18.8     | 14.9 | ----- |
| Stroke.....                                | 16              | 25.0                | 25.1 | ----- | 25.0    | 30.8 | ----- | 25.0     | 34.2 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 3               | 33.3                | 31.9 | ----- | 33.3    | 37.0 | ----- | 33.3     | 40.6 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 0               |                     |      |       |         |      |       |          |      |       |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# CUMBERLAND COUNTY HOSPITAL

Medicare Provider Number: 180108

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.3 years  
Proportion female..... 60.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 22.2 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 76.0 %

### COMORBIDITIES:

Cancer..... 3.9 %  
Chronic cardiovascular disease..... 59.9 %  
Chronic liver disease..... 0.3 %  
Chronic renal disease..... 5.7 %  
Chronic pulmonary disease..... 14.2 %  
Cerebrovascular degeneration..... 2.6 %  
Diabetes mellitus..... 8.8 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 80.1 %  
State ..... 17.2 %  
Outside State ..... 2.7 %  
Total ..... 100.0 %

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.8 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 31  
Occupancy Rate ..... 64.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 49.0 %  
Case Mix Index (CMI) ..... 0.9513

### STAFFING:

Total Number of Physicians..... 5  
Percent of Physicians Board  
Certified Specialists ..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 6  
Licensed Practical Nurses ..... 11

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



# EPHRAIM MCDOWELL REGIONAL MEDICAL CENTER

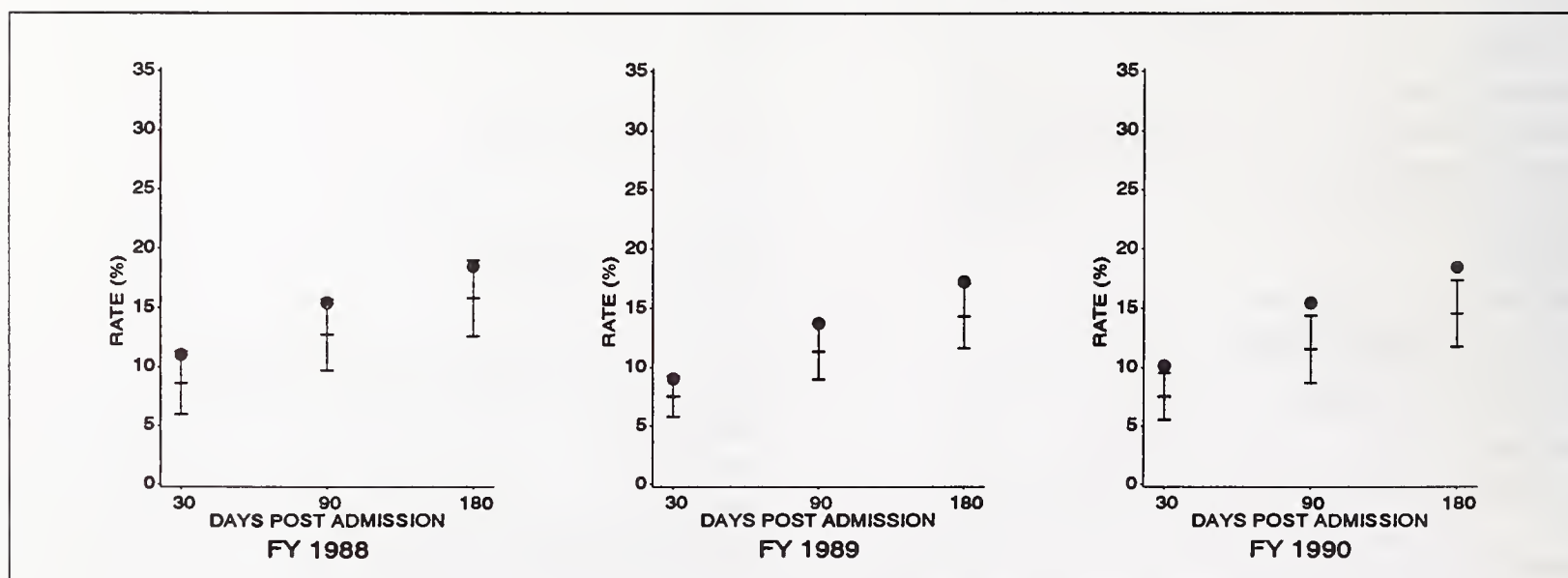
217 S THIRD ST  
DANVILLE, KY 40422  
Medicare Provider Number: 180048

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1313            | 10.1                | 7.5  | 1.0   | 15.4    | 11.5 | 1.4   | 18.4     | 14.5 | 1.4   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 39              | 33.3                | 23.2 | ----- | 38.5    | 25.7 | ----- | 41.0     | 27.9 | ----- |
| Congestive Heart Failure.....              | 66              | 19.7                | 14.9 | 7.5   | 27.3    | 24.0 | 7.0   | 34.8     | 30.6 | 7.5   |
| Pneumonia/Influenza.....                   | 88              | 17.0                | 13.5 | 5.9   | 21.6    | 18.7 | 7.1   | 25.0     | 22.3 | 6.1   |
| Chronic Obstructive Pulmonary Disease..... | 42              | 9.5                 | 7.9  | ----- | 16.7    | 14.5 | ----- | 26.2     | 19.6 | ----- |
| Transient Cerebral Ischemia.....           | 18              | 0.0                 | 2.0  | ----- | 0.0     | 4.7  | ----- | 0.0      | 7.5  | ----- |
| Stroke.....                                | 33              | 21.2                | 19.8 | ----- | 27.3    | 24.6 | ----- | 30.3     | 27.9 | ----- |
| Hip Fracture.....                          | 93              | 12.9                | 5.4  | 4.5   | 17.2    | 9.6  | 5.1   | 18.3     | 12.6 | 4.5   |
| Sepsis.....                                | 4               | 50.0                | 31.7 | ----- | 50.0    | 38.8 | ----- | 50.0     | 44.1 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 2               | 0.0                 | 1.1  | ----- | 0.0     | 2.1  | ----- | 0.0      | 3.4  | ----- |
| Carotid Endarterectomy.....                | 5               | 20.0                | 1.9  | ----- | 20.0    | 3.9  | ----- | 20.0     | 5.8  | ----- |
| Hip Replacement/Reconstruction.....        | 56              | 7.1                 | 3.6  | 4.7   | 12.5    | 6.8  | 7.8   | 12.5     | 9.1  | 7.1   |
| Open Reduction of Hip Fracture.....        | 51              | 11.8                | 4.6  | 5.7   | 13.7    | 8.6  | 5.4   | 15.7     | 11.4 | 5.5   |
| Prostatectomy.....                         | 87              | 1.1                 | 0.6  | 0.9   | 1.1     | 1.3  | 1.6   | 3.4      | 2.3  | 2.1   |
| Cholecystectomy.....                       | 50              | 4.0                 | 1.6  | ----- | 4.0     | 2.7  | ----- | 4.0      | 3.7  | ----- |
| Hysterectomy.....                          | 9               | 0.0                 | 1.6  | ----- | 0.0     | 3.4  | ----- | 0.0      | 4.8  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (\*) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# EPHRAIM MCDOWELL REGIONAL MEDICAL CENTER

Medicare Provider Number: 180048

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.3 years  
Proportion female..... 57.0 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 38.8 %  
Transferred from skilled nursing facility..... 0.4 %  
Admitted for elective procedure..... 38.3 %  
Admitted for emergency..... 24.5 %

### COMORBIDITIES:

Cancer..... 4.5 %  
Chronic cardiovascular disease..... 24.1 %  
Chronic liver disease..... 0.4 %  
Chronic renal disease..... 1.4 %  
Chronic pulmonary disease..... 12.3 %  
Cerebrovascular degeneration..... 5.2 %  
Diabetes mellitus..... 7.5 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 44.5%  
State ..... 53.9%  
Outside State ..... 1.6%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.1 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 147  
Occupancy Rate ..... 55.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 41.5 %  
Case Mix Index (CMI) ..... 1.1697

### STAFFING:

Total Number of Physicians..... 49  
Percent of Physicians Board  
Certified Specialists ..... 73.5 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 83  
Licensed Practical Nurses ..... 74

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation ..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# FLAGET MEMORIAL HOSPITAL

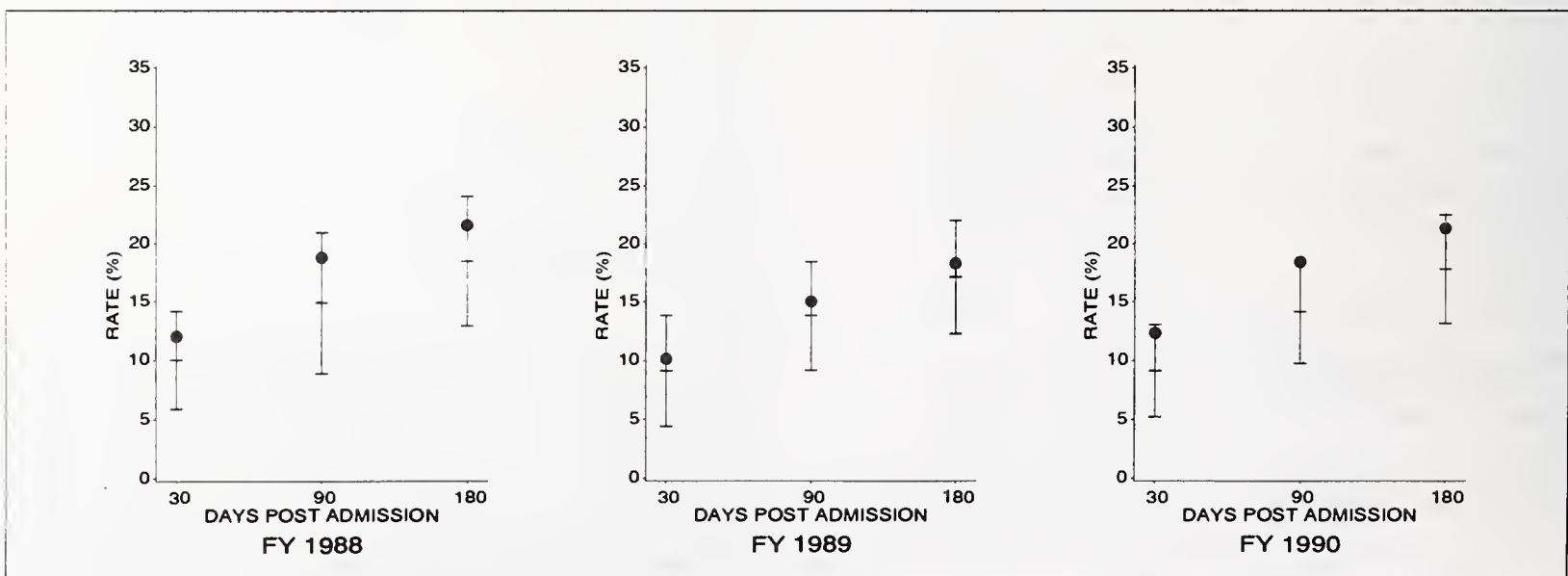
201 CATHEDRAL MANOR  
BARDSTOWN, KY 40004  
Medicare Provider Number: 180025

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 506             | 12.3                | 9.1  | 2.0   | 18.4    | 14.1 | 2.2   | 21.3     | 17.8 | 2.4   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 12              | 41.7                | 28.7 | ----- | 41.7    | 33.1 | ----- | 41.7     | 36.3 | ----- |
| Congestive Heart Failure.....              | 29              | 20.7                | 14.8 | ----- | 34.5    | 23.6 | ----- | 41.4     | 30.3 | ----- |
| Pneumonia/Influenza.....                   | 31              | 12.9                | 15.9 | ----- | 22.6    | 22.5 | ----- | 22.6     | 26.5 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 10              | 0.0                 | 6.5  | ----- | 10.0    | 11.7 | ----- | 10.0     | 16.0 | ----- |
| Transient Cerebral Ischemia.....           | 8               | 0.0                 | 2.4  | ----- | 0.0     | 5.2  | ----- | 0.0      | 8.0  | ----- |
| Stroke.....                                | 19              | 31.6                | 17.0 | ----- | 36.8    | 22.0 | ----- | 42.1     | 25.3 | ----- |
| Hip Fracture.....                          | 24              | 4.2                 | 6.0  | ----- | 16.7    | 10.7 | ----- | 20.8     | 14.0 | ----- |
| Sepsis.....                                | 6               | 33.3                | 28.3 | ----- | 50.0    | 40.9 | ----- | 50.0     | 47.1 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 15              | 6.7                 | 4.3  | ----- | 13.3    | 8.2  | ----- | 20.0     | 11.3 | ----- |
| Open Reduction of Hip Fracture.....        | 11              | 0.0                 | 7.1  | ----- | 18.2    | 12.9 | ----- | 18.2     | 16.6 | ----- |
| Prostatectomy.....                         | 5               | 0.0                 | 0.8  | ----- | 20.0    | 1.8  | ----- | 40.0     | 3.0  | ----- |
| Cholecystectomy.....                       | 15              | 0.0                 | 1.2  | ----- | 0.0     | 2.2  | ----- | 0.0      | 3.0  | ----- |
| Hysterectomy.....                          | 3               | 0.0                 | 0.2  | ----- | 0.0     | 0.4  | ----- | 0.0      | 0.8  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# FLAGET MEMORIAL HOSPITAL

Medicare Provider Number: 180025

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.7 years  
Proportion female..... 62.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 51.8 %  
Transferred from skilled nursing facility..... 0.8 %  
Admitted for elective procedure..... 10.3 %  
Admitted for emergency..... 88.3 %

### COMORBIDITIES:

Cancer..... 6.3 %  
Chronic cardiovascular disease..... 30.4 %  
Chronic liver disease..... 1.8 %  
Chronic renal disease..... 3.2 %  
Chronic pulmonary disease..... 11.5 %  
Cerebrovascular degeneration..... 3.4 %  
Diabetes mellitus..... 5.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 82.7%  
State ..... 15.4%  
Outside State ..... 1.9%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.2 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 52  
Occupancy Rate ..... 48.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 38.3 %  
Case Mix Index (CMI) ..... 1.0931

### STAFFING:

Total Number of Physicians..... 18  
Percent of Physicians Board  
Certified Specialists ..... 94.4 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 37  
Licensed Practical Nurses ..... 4

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# FLEMING COUNTY HOSPITAL

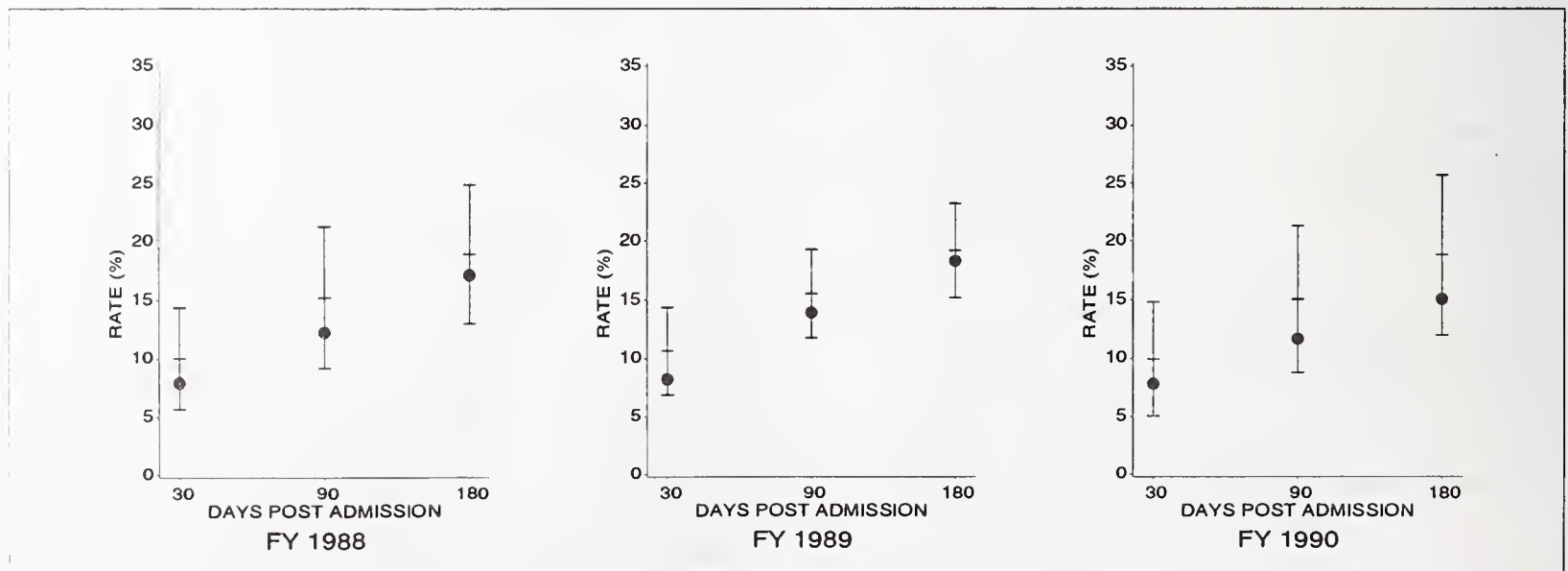
920 ELIZAVILLE RD, BOX 388  
FLEMINGSBURG, KY 41041  
Medicare Provider Number: 180053

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 448             | 7.8                 | 9.9  | 2.4   | 11.6    | 15.0 | 3.1   | 15.0     | 18.8 | 3.4   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 13              | 15.4                | 22.8 | ----- | 15.4    | 25.4 | ----- | 15.4     | 27.9 | ----- |
| Congestive Heart Failure.....              | 29              | 6.9                 | 15.0 | ----- | 10.3    | 24.2 | ----- | 20.7     | 30.2 | ----- |
| Pneumonia/Influenza.....                   | 47              | 10.6                | 14.9 | ----- | 19.1    | 20.9 | ----- | 19.1     | 24.8 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 17              | 11.8                | 4.7  | ----- | 11.8    | 8.8  | ----- | 11.8     | 12.3 | ----- |
| Transient Cerebral Ischemia.....           | 15              | 0.0                 | 2.1  | ----- | 0.0     | 4.8  | ----- | 0.0      | 7.8  | ----- |
| Stroke.....                                | 11              | 18.2                | 20.1 | ----- | 18.2    | 25.2 | ----- | 27.3     | 29.1 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 16              | 12.5                | 27.9 | ----- | 25.0    | 36.8 | ----- | 43.8     | 42.3 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 1               | 0.0                 | 3.4  | ----- | 100.0   | 8.7  | ----- | 100.0    | 14.5 | ----- |
| Cholecystectomy.....                       | 4               | 0.0                 | 1.9  | ----- | 0.0     | 3.0  | ----- | 0.0      | 3.8  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# FLEMING COUNTY HOSPITAL

Medicare Provider Number: 180053

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.1 years  
Proportion female..... 57.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 48.0 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 51.6 %

### COMORBIDITIES:

Cancer..... 4.9 %  
Chronic cardiovascular disease..... 40.0 %  
Chronic liver disease..... 0.7 %  
Chronic renal disease..... 1.1 %  
Chronic pulmonary disease..... 25.9 %  
Cerebrovascular degeneration..... 3.3 %  
Diabetes mellitus..... 5.8 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 80.0%  
State ..... 18.8%  
Outside State ..... 1.2%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 7.4 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 52  
Occupancy Rate ..... 44.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 50.5 %  
Case Mix Index (CMI) ..... 1.0055

### STAFFING:

Total Number of Physicians..... 5  
Percent of Physicians Board  
Certified Specialists ..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses ..... 26  
Licensed Practical Nurses ..... 6

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



# FORT LOGAN HOSPITAL

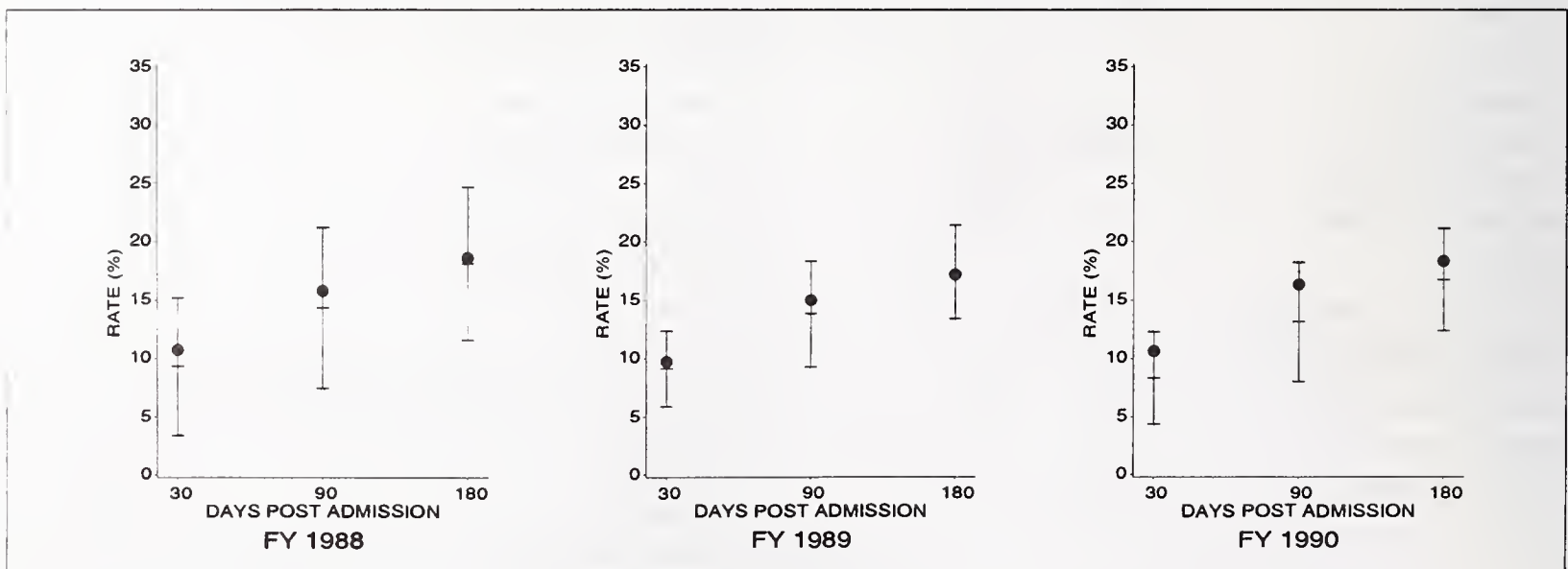
124 PORTMAN AVE  
STANFORD, KY 40484  
Medicare Provider Number: 180099

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 367                | 10.6                | 8.3  | 2.0   | 16.3    | 13.1 | 2.6   | 18.3     | 16.7 | 2.2   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 7                  | 0.0                 | 30.6 | ----- | 14.3    | 33.8 | ----- | 14.3     | 36.7 | ----- |
| Congestive Heart Failure.....              | 25                 | 12.0                | 12.2 | ----- | 20.0    | 19.9 | ----- | 20.0     | 25.8 | ----- |
| Pneumonia/Influenza.....                   | 34                 | 17.6                | 14.9 | ----- | 23.5    | 21.4 | ----- | 23.5     | 25.9 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 12                 | 0.0                 | 4.4  | ----- | 0.0     | 8.8  | ----- | 8.3      | 12.3 | ----- |
| Transient Cerebral Ischemia.....           | 13                 | 7.7                 | 1.5  | ----- | 15.4    | 3.5  | ----- | 23.1     | 5.9  | ----- |
| Stroke.....                                | 14                 | 35.7                | 17.2 | ----- | 42.9    | 24.5 | ----- | 50.0     | 28.6 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 10                 | 30.0                | 25.5 | ----- | 40.0    | 34.7 | ----- | 40.0     | 40.3 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 4                  | 0.0                 | 0.8  | ----- | 0.0     | 1.6  | ----- | 0.0      | 2.7  | ----- |
| Cholecystectomy.....                       | 5                  | 0.0                 | 0.6  | ----- | 0.0     | 1.1  | ----- | 0.0      | 1.4  | ----- |
| Hysterectomy.....                          | 1                  | 0.0                 | 0.1  | ----- | 0.0     | 0.2  | ----- | 0.0      | 0.4  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# FORT LOGAN HOSPITAL

Medicare Provider Number: 180099

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.7 years  
Proportion female..... 58.3 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 84.7 %  
Transferred from skilled nursing facility..... 2.2 %  
Admitted for elective procedure..... 15.3 %  
Admitted for emergency..... 10.4 %

### COMORBIDITIES:

Cancer..... 2.2 %  
Chronic cardiovascular disease..... 37.6 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 0.5 %  
Chronic pulmonary disease..... 18.0 %  
Cerebrovascular degeneration..... 9.8 %  
Diabetes mellitus..... 6.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 82.4%  
State ..... 16.1%  
Outside State ..... 1.5%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.3 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 73  
Occupancy Rate ..... 65.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 51.4 %  
Case Mix Index (CMI) ..... 0.9538

### STAFFING:

Total Number of Physicians..... 7  
Percent of Physicians Board  
Certified Specialists ..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 27  
Licensed Practical Nurses ..... 11

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# FRANKLIN-SIMPSON MEMORIAL HOSPITAL

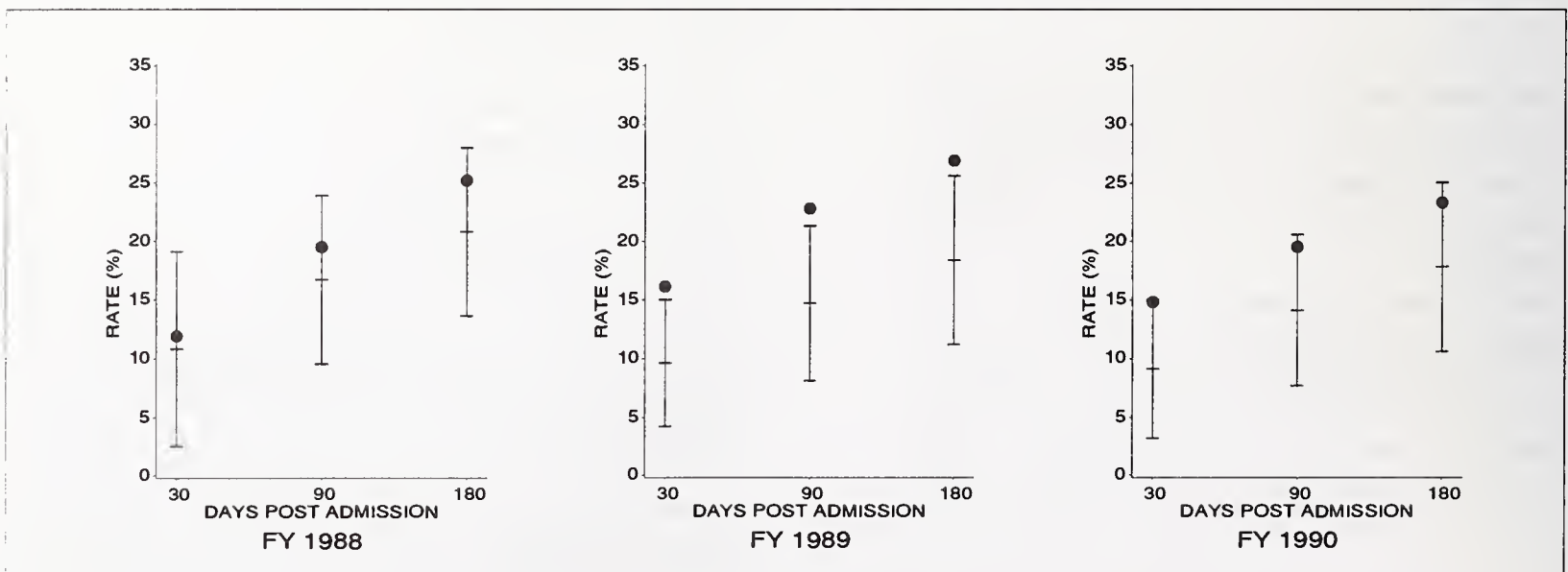
1100 BROOKHAVEN RD  
FRANKLIN, KY 42135  
Medicare Provider Number: 180120

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 210             | 14.8                | 9.1  | 3.0   | 19.5    | 14.1 | 3.2   | 23.3     | 17.8 | 3.6   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 2               | 100.0               | 30.8 | ----- | 100.0   | 37.5 | ----- | 100.0    | 40.6 | ----- |
| Congestive Heart Failure.....              | 12              | 25.0                | 14.3 | ----- | 33.3    | 22.8 | ----- | 41.7     | 28.9 | ----- |
| Pneumonia/Influenza.....                   | 34              | 17.6                | 14.0 | ----- | 20.6    | 18.8 | ----- | 26.5     | 21.7 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 4               | 25.0                | 6.2  | ----- | 25.0    | 11.7 | ----- | 25.0     | 15.7 | ----- |
| Transient Cerebral Ischemia.....           | 2               | 0.0                 | 1.6  | ----- | 0.0     | 3.9  | ----- | 0.0      | 6.7  | ----- |
| Stroke.....                                | 3               | 33.3                | 22.1 | ----- | 66.7    | 29.8 | ----- | 66.7     | 35.1 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 0               |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 2               | 0.0                 | 1.6  | ----- | 0.0     | 2.7  | ----- | 0.0      | 3.6  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# FRANKLIN-SIMPSON MEMORIAL HOSPITAL

Medicare Provider Number: 180120

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.6 years  
Proportion female..... 63.3 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 49.0 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 43.8 %

### COMORBIDITIES:

Cancer..... 4.8 %  
Chronic cardiovascular disease..... 31.4 %  
Chronic liver disease..... 0.5 %  
Chronic renal disease..... 2.4 %  
Chronic pulmonary disease..... 16.7 %  
Cerebrovascular degeneration..... 6.2 %  
Diabetes mellitus..... 11.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 83.8%  
State ..... 12.5%  
Outside State ..... 3.7%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.4 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 50  
Occupancy Rate ..... 28.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 54.9 %  
Case Mix Index (CMI) ..... 0.9255

### STAFFING:

Total Number of Physicians..... 7  
Percent of Physicians Board  
Certified Specialists..... 42.9 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 8  
Licensed Practical Nurses..... 5

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# GARRARD COUNTY MEMORIAL HOSPITAL

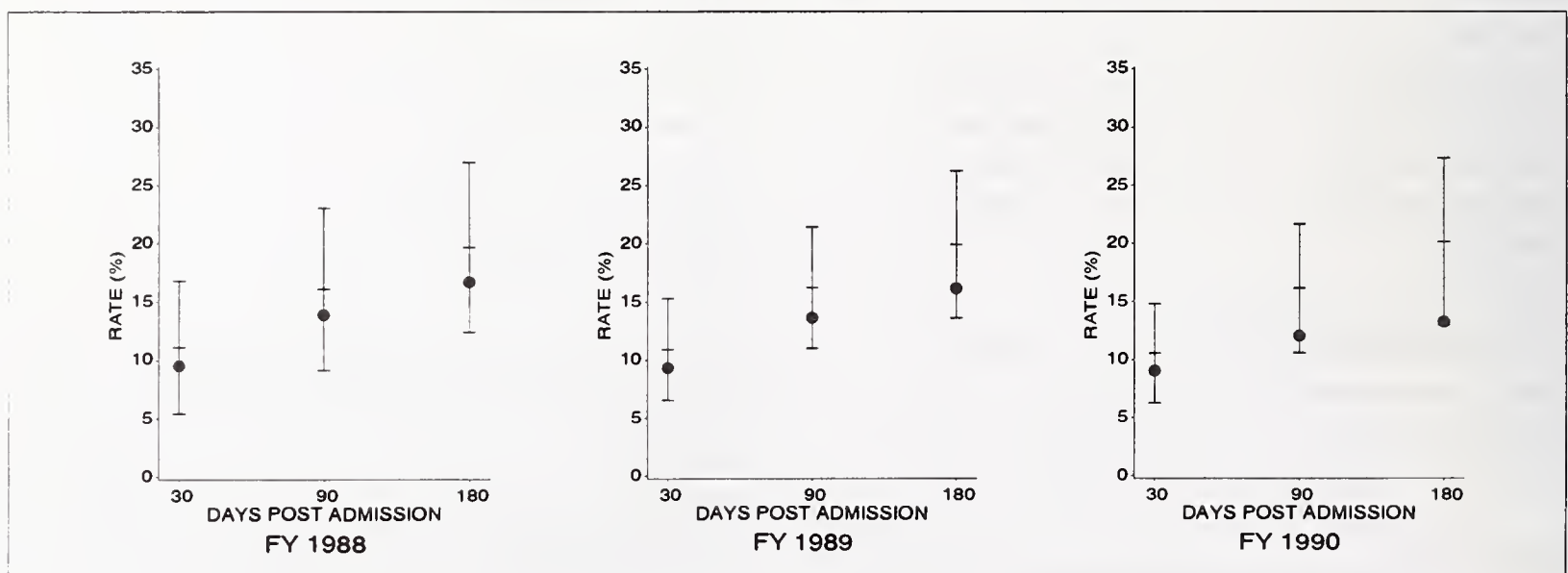
308 W MAPLE AV  
LANCASTER, KY 40444  
Medicare Provider Number: 180031

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 234             | 9.0                 | 10.5 | 2.1   | 12.0    | 16.1 | 2.8   | 13.2     | 20.1 | 3.6   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 8               | 12.5                | 34.2 | ----- | 12.5    | 37.0 | ----- | 12.5     | 39.7 | ----- |
| Congestive Heart Failure.....              | 14              | 14.3                | 15.8 | ----- | 28.6    | 25.3 | ----- | 28.6     | 32.8 | ----- |
| Pneumonia/Influenza.....                   | 24              | 12.5                | 14.7 | ----- | 16.7    | 20.9 | ----- | 16.7     | 24.9 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 3               | 33.3                | 8.8  | ----- | 33.3    | 15.1 | ----- | 33.3     | 19.2 | ----- |
| Transient Cerebral Ischemia.....           | 4               | 0.0                 | 1.3  | ----- | 0.0     | 2.9  | ----- | 0.0      | 4.7  | ----- |
| Stroke.....                                | 11              | 18.2                | 21.2 | ----- | 18.2    | 27.5 | ----- | 18.2     | 31.5 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 0               |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 3               | 0.0                 | 0.9  | ----- | 0.0     | 2.0  | ----- | 0.0      | 3.5  | ----- |
| Cholecystectomy.....                       | 2               | 0.0                 | 2.1  | ----- | 0.0     | 3.3  | ----- | 0.0      | 4.5  | ----- |
| Hysterectomy.....                          | 3               | 0.0                 | 1.2  | ----- | 0.0     | 2.3  | ----- | 0.0      | 3.8  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# GARRARD COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 180031

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.8 years  
Proportion female..... 54.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 85.0 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 4.3 %  
Admitted for emergency..... 10.7 %

### COMORBIDITIES:

Cancer..... 6.0 %  
Chronic cardiovascular disease..... 46.2 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 5.6 %  
Chronic pulmonary disease..... 13.2 %  
Cerebrovascular degeneration..... 10.3 %  
Diabetes mellitus..... 8.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 81.3%  
State ..... 17.4%  
Outside State ..... 1.3%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.2 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 131  
Occupancy Rate ..... 84.0 %  
Ownership/Control..... Local Government  
Medicare Discharges .....(Not Available)  
Case Mix Index (CMI) ..... 1.0005

### STAFFING:

Total Number of Physicians..... (Not Available)  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... (Not Available)  
Registered Nurses..... (Not Available)  
Licensed Practical Nurses ..... (Not Available)

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# GOOD SAMARITAN HOSPITAL

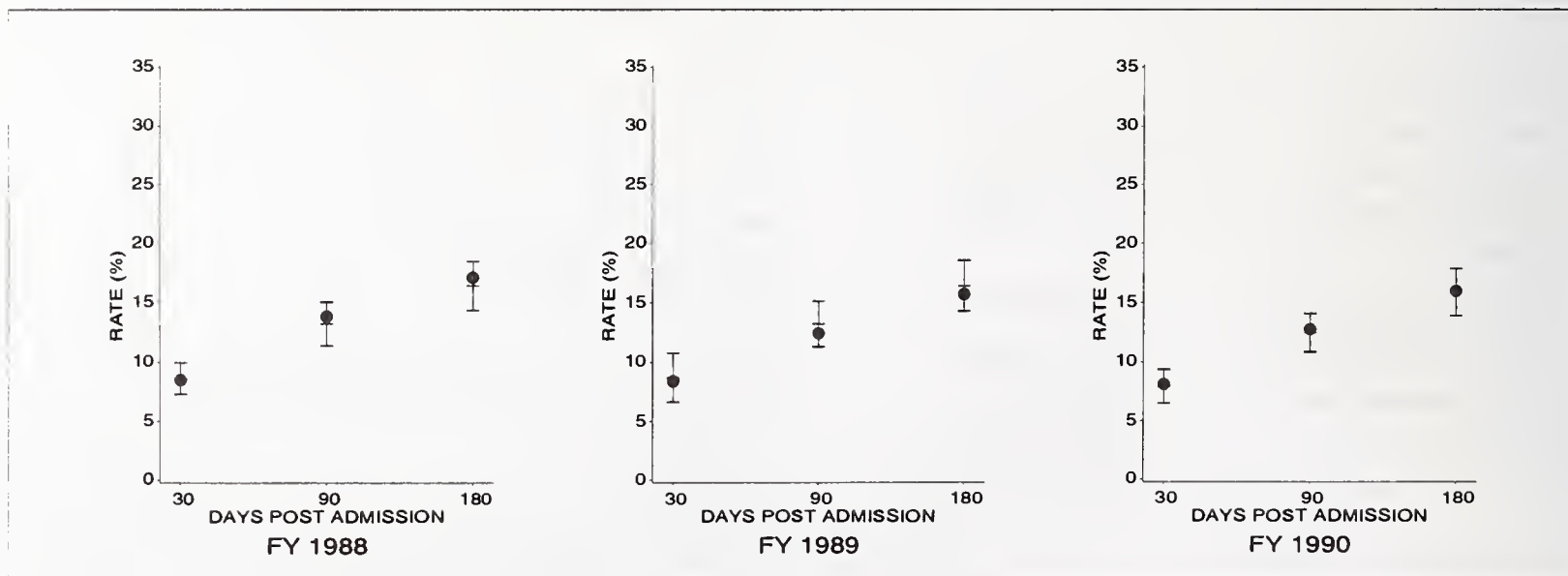
310 S LESTONE ST  
LEXINGTON, KY 40508  
Medicare Provider Number: 180007

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1731            | 8.1                 | 7.9  | 0.7   | 12.7    | 12.4 | 0.8   | 15.9     | 15.8 | 1.0   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 46              | 15.2                | 17.8 | ----- | 21.7    | 22.0 | ----- | 21.7     | 25.3 | ----- |
| Congestive Heart Failure.....              | 71              | 15.5                | 11.5 | 4.9   | 18.3    | 18.6 | 5.0   | 23.9     | 24.4 | 5.3   |
| Pneumonia/Influenza.....                   | 77              | 10.4                | 13.6 | 6.3   | 16.9    | 19.2 | 9.7   | 19.5     | 22.9 | 9.7   |
| Chronic Obstructive Pulmonary Disease..... | 17              | 5.9                 | 8.5  | ----- | 5.9     | 14.9 | ----- | 5.9      | 19.4 | ----- |
| Transient Cerebral Ischemia.....           | 34              | 0.0                 | 1.2  | ----- | 2.9     | 3.0  | ----- | 2.9      | 5.0  | ----- |
| Stroke.....                                | 89              | 21.3                | 17.9 | 5.4   | 25.8    | 23.8 | 5.1   | 29.2     | 27.4 | 5.7   |
| Hip Fracture.....                          | 70              | 4.3                 | 6.1  | 3.5   | 4.3     | 10.7 | 5.9   | 10.0     | 14.0 | 7.6   |
| Sepsis.....                                | 17              | 11.8                | 22.7 | ----- | 17.6    | 30.6 | ----- | 23.5     | 35.4 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 12              | 8.3                 | 2.6  | ----- | 16.7    | 5.5  | ----- | 16.7     | 8.0  | ----- |
| Carotid Endarterectomy.....                | 21              | 0.0                 | 1.3  | ----- | 4.8     | 2.4  | ----- | 4.8      | 3.5  | ----- |
| Hip Replacement/Reconstruction.....        | 61              | 6.6                 | 3.8  | 3.6   | 6.6     | 6.7  | 3.2   | 9.8      | 8.8  | 4.1   |
| Open Reduction of Hip Fracture.....        | 29              | 0.0                 | 5.5  | ----- | 0.0     | 10.1 | ----- | 3.4      | 13.7 | ----- |
| Prostatectomy.....                         | 61              | 0.0                 | 1.0  | 1.6   | 0.0     | 2.3  | 2.9   | 1.6      | 3.8  | 3.3   |
| Cholecystectomy.....                       | 50              | 4.0                 | 2.7  | ----- | 12.0    | 4.9  | ----- | 12.0     | 6.7  | ----- |
| Hysterectomy.....                          | 17              | 0.0                 | 0.5  | ----- | 0.0     | 1.1  | ----- | 0.0      | 1.9  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# GOOD SAMARITAN HOSPITAL

Medicare Provider Number: 180007

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 73.5 years  
Proportion female..... 60.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 54.5 %  
Transferred from skilled nursing facility..... 0.1 %  
Admitted for elective procedure..... 38.1 %  
Admitted for emergency..... 19.4 %

### COMORBIDITIES:

Cancer..... 8.6 %  
Chronic cardiovascular disease..... 38.2 %  
Chronic liver disease..... 1.1 %  
Chronic renal disease..... 2.4 %  
Chronic pulmonary disease..... 20.2 %  
Cerebrovascular degeneration..... 3.6 %  
Diabetes mellitus..... 11.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 48.0%  
State ..... 49.4%  
Outside State ..... 2.6%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.1 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: Health Care Financing Administration (OSCAR)\*\* - Survey Year 1991

### PROFILE:

Total Beds ..... 336  
Ownership/Control..... Private, Non-Profit  
Case Mix Index (CMI) ..... 1.3732

### STAFFING:

Medical Residents/Interns ..... 0  
Registered Nurses..... 219  
Licensed Practical Nurses..... 41

### SPECIALTY SERVICES:

Burn Unit ..... No  
Coronary Care Unit ..... Yes  
Hospice Care ..... Yes  
Intensive Care Unit ..... Yes  
Organ Transplant ..... Yes  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# GRANT COUNTY HOSPITAL

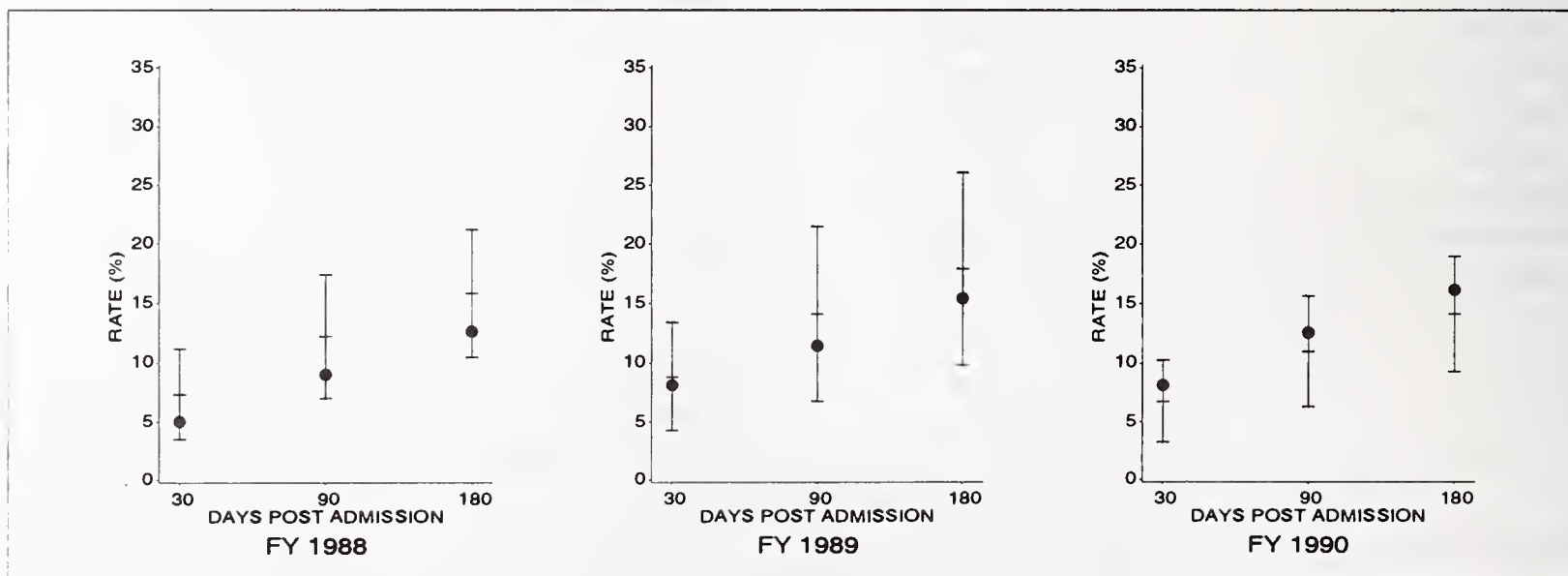
238 BARNES RD  
WILLIAMSTOWN, KY 41097  
Medicare Provider Number: 180023

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 273                | 8.1                 | 6.7  | 1.8   | 12.5    | 10.9 | 2.3   | 16.1     | 14.1 | 2.4   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 4                  | 0.0                 | 10.1 | ----- | 0.0     | 12.6 | ----- | 0.0      | 15.6 | ----- |
| Congestive Heart Failure.....              | 15                 | 13.3                | 13.6 | ----- | 20.0    | 22.2 | ----- | 33.3     | 28.8 | ----- |
| Pneumonia/Influenza.....                   | 44                 | 4.5                 | 13.0 | ----- | 9.1     | 18.9 | ----- | 11.4     | 22.2 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 9                  | 11.1                | 6.3  | ----- | 11.1    | 11.8 | ----- | 22.2     | 16.5 | ----- |
| Transient Cerebral Ischemia.....           | 1                  | 0.0                 | 0.9  | ----- | 0.0     | 2.4  | ----- | 0.0      | 4.2  | ----- |
| Stroke.....                                | 6                  | 83.3                | 15.5 | ----- | 83.3    | 22.6 | ----- | 83.3     | 27.4 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 2                  | 50.0                | 31.8 | ----- | 50.0    | 45.0 | ----- | 50.0     | 50.6 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 0                  |                     |      |       |         |      |       |          |      |       |
| Hysterectomy.....                          | 0                  |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# GRANT COUNTY HOSPITAL

Medicare Provider Number: 180023

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.5 years  
Proportion female..... 72.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 97.4 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.7 %  
Admitted for emergency..... 0.0 %

### COMORBIDITIES:

Cancer..... 4.0 %  
Chronic cardiovascular disease..... 22.3 %  
Chronic liver disease..... 0.4 %  
Chronic renal disease..... 0.7 %  
Chronic pulmonary disease..... 11.7 %  
Cerebrovascular degeneration..... 9.9 %  
Diabetes mellitus..... 9.5 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 75.7%  
State..... 22.9%  
Outside State..... 1.4%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 5.0 Days  
State..... 8.2 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 30  
Occupancy Rate..... 33.0 %  
Ownership/Control..... Local Government  
Medicare Discharges..... 65.0 %  
Case Mix Index (CMI)..... 0.8627

### STAFFING:

Total Number of Physicians..... 9  
Percent of Physicians Board  
Certified Specialists..... 44.4 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 6  
Licensed Practical Nurses..... 8

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... No  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# GRAYSON COUNTY HOSPITAL

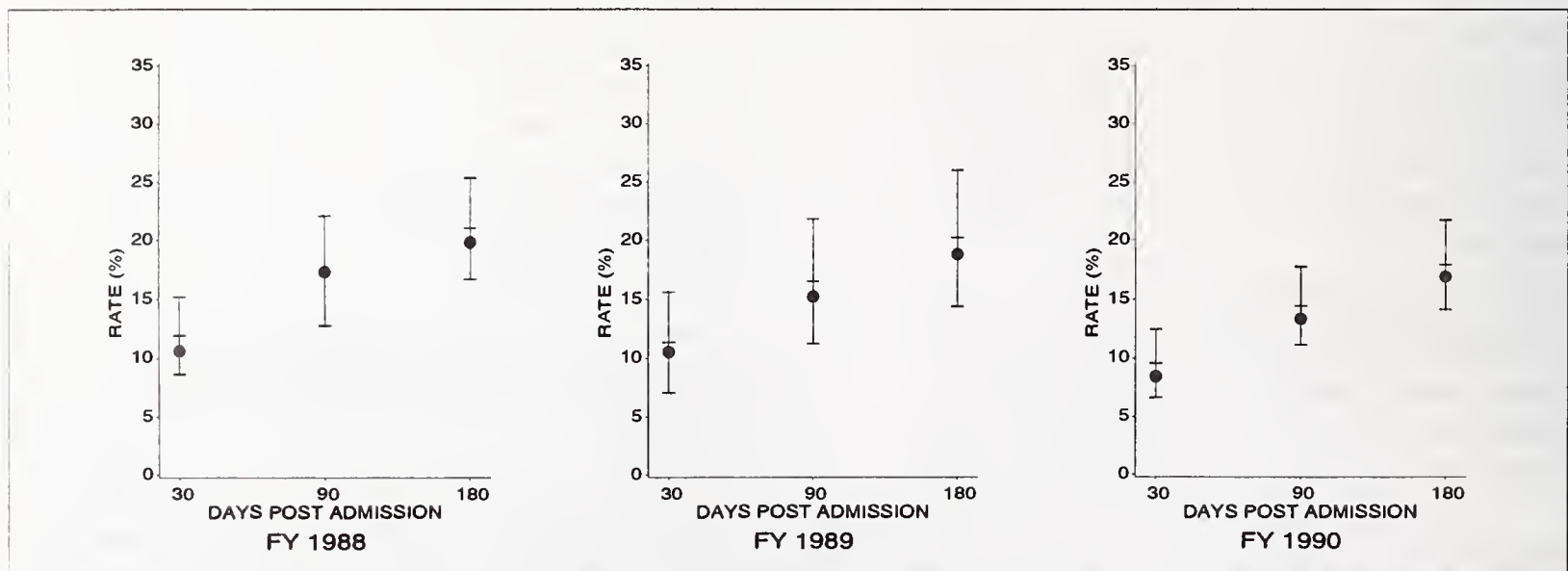
910 WALLACE AVE  
LEITCHFIELD, KY 42754  
Medicare Provider Number: 180070

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 724                | 8.4                 | 9.5  | 1.5   | 13.3    | 14.4 | 1.7   | 16.9     | 17.9 | 1.9   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 24                 | 33.3                | 22.9 | ----- | 37.5    | 25.4 | ----- | 37.5     | 28.1 | ----- |
| Congestive Heart Failure.....              | 35                 | 17.1                | 15.6 | ----- | 34.3    | 25.6 | ----- | 37.1     | 32.5 | ----- |
| Pneumonia/Influenza.....                   | 47                 | 8.5                 | 16.8 | ----- | 14.9    | 23.0 | ----- | 21.3     | 27.0 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 21                 | 4.8                 | 7.5  | ----- | 4.8     | 13.2 | ----- | 9.5      | 17.9 | ----- |
| Transient Cerebral Ischemia.....           | 25                 | 0.0                 | 2.2  | ----- | 8.0     | 5.0  | ----- | 12.0     | 7.9  | ----- |
| Stroke.....                                | 30                 | 23.3                | 22.1 | ----- | 30.0    | 27.9 | ----- | 30.0     | 31.5 | ----- |
| Hip Fracture.....                          | 3                  | 0.0                 | 3.8  | ----- | 0.0     | 6.6  | ----- | 0.0      | 8.9  | ----- |
| Sepsis.....                                | 1                  | 0.0                 | 17.6 | ----- | 0.0     | 25.5 | ----- | 0.0      | 29.5 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 18                 | 0.0                 | 0.9  | ----- | 0.0     | 2.0  | ----- | 5.6      | 3.2  | ----- |
| Cholecystectomy.....                       | 8                  | 0.0                 | 2.7  | ----- | 0.0     | 5.2  | ----- | 12.5     | 6.9  | ----- |
| Hysterectomy.....                          | 2                  | 0.0                 | 0.1  | ----- | 0.0     | 0.3  | ----- | 0.0      | 0.6  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# GRAYSON COUNTY HOSPITAL

Medicare Provider Number: 180070

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 73.9 years  
Proportion female..... 54.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 45.0 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 1.7 %  
Admitted for emergency..... 96.6 %

### COMORBIDITIES:

Cancer..... 3.3 %  
Chronic cardiovascular disease..... 35.2 %  
Chronic liver disease..... 0.3 %  
Chronic renal disease..... 2.2 %  
Chronic pulmonary disease..... 22.6 %  
Cerebrovascular degeneration..... 2.9 %  
Diabetes mellitus..... 8.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 83.9%  
State ..... 15.1%  
Outside State ..... 1.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 7.5 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 75  
Occupancy Rate ..... 65.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 43.5 %  
Case Mix Index (CMI) ..... 0.9917

### STAFFING:

Total Number of Physicians..... 14  
Percent of Physicians Board  
Certified Specialists..... 71.4 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 58  
Licensed Practical Nurses ..... 13

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



# HARDIN MEMORIAL HOSPITAL

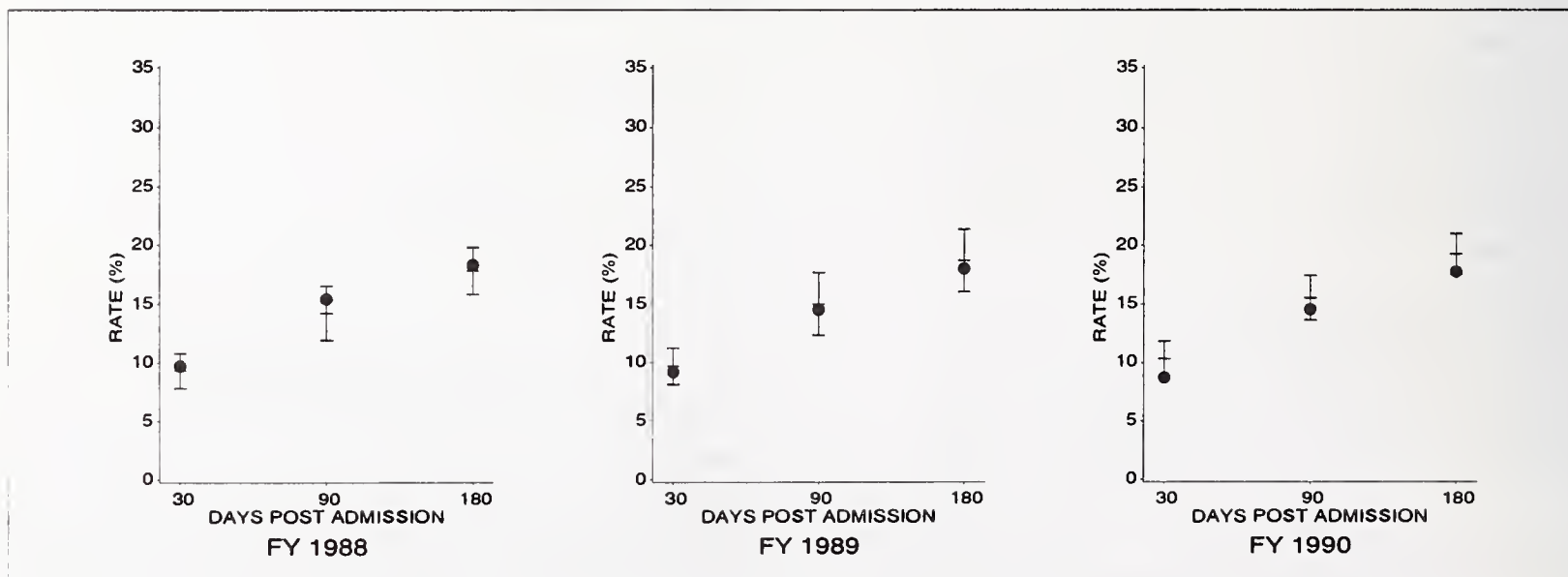
N DIXIE AVE  
ELIZABETHTOWN, KY 42701  
Medicare Provider Number: 180012

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|-----------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                 | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                 | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 2529            | 8.7                 | 10.3 | 0.8  | 14.5    | 15.5 | 1.0  | 17.7     | 19.2 | 0.9  |
| CONDITIONS:                                |                 |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 61              | 31.1                | 27.8 | 6.2  | 31.1    | 30.4 | 6.0  | 34.4     | 32.8 | 6.1  |
| Congestive Heart Failure.....              | 180             | 11.7                | 15.0 | 3.3  | 19.4    | 23.7 | 3.9  | 23.3     | 30.1 | 4.9  |
| Pneumonia/Influenza.....                   | 209             | 9.6                 | 16.4 | 3.9  | 18.7    | 22.5 | 3.7  | 24.4     | 26.4 | 3.9  |
| Chronic Obstructive Pulmonary Disease..... | 45              | 6.7                 | 5.1  | ---- | 13.3    | 9.6  | ---- | 13.3     | 13.2 | ---- |
| Transient Cerebral Ischemia.....           | 37              | 0.0                 | 1.5  | ---- | 5.4     | 3.4  | ---- | 5.4      | 5.4  | ---- |
| Stroke.....                                | 112             | 10.7                | 17.1 | 5.7  | 20.5    | 24.2 | 5.6  | 24.1     | 28.1 | 5.1  |
| Hip Fracture.....                          | 87              | 2.3                 | 6.3  | 2.9  | 4.6     | 11.0 | 4.0  | 4.6      | 14.3 | 4.8  |
| Sepsis.....                                | 32              | 31.3                | 20.2 | ---- | 31.3    | 27.8 | ---- | 31.3     | 32.1 | ---- |
| PROCEDURES:                                |                 |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0               |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 19              | 10.5                | 4.2  | ---- | 26.3    | 8.3  | ---- | 31.6     | 11.6 | ---- |
| Carotid Endarterectomy.....                | 18              | 5.6                 | 1.7  | ---- | 5.6     | 3.0  | ---- | 5.6      | 4.3  | ---- |
| Hip Replacement/Reconstruction.....        | 45              | 0.0                 | 3.7  | ---- | 0.0     | 6.8  | ---- | 0.0      | 9.1  | ---- |
| Open Reduction of Hip Fracture.....        | 38              | 2.6                 | 5.6  | ---- | 5.3     | 9.9  | ---- | 5.3      | 13.1 | ---- |
| Prostatectomy.....                         | 79              | 3.8                 | 1.7  | 2.6  | 3.8     | 4.1  | 2.5  | 5.1      | 6.9  | 4.8  |
| Cholecystectomy.....                       | 71              | 5.6                 | 3.1  | 3.0  | 5.6     | 5.5  | 3.4  | 8.5      | 7.1  | 3.3  |
| Hysterectomy.....                          | 8               | 0.0                 | 0.5  | ---- | 0.0     | 1.1  | ---- | 0.0      | 1.6  | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HARDIN MEMORIAL HOSPITAL

Medicare Provider Number: 180012

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

|                               |            |
|-------------------------------|------------|
| Average age at admission..... | 73.8 years |
| Proportion female.....        | 54.2 %     |

### ADMISSION SOURCES/TYPES:

|                                                |        |
|------------------------------------------------|--------|
| Referred by personal or HMO physician.....     | 36.7 % |
| Transferred from skilled nursing facility..... | 0.0 %  |
| Admitted for elective procedure.....           | 10.8 % |
| Admitted for emergency.....                    | 87.0 % |

### COMORBIDITIES:

|                                     |        |
|-------------------------------------|--------|
| Cancer.....                         | 8.7 %  |
| Chronic cardiovascular disease..... | 39.5 % |
| Chronic liver disease.....          | 0.9 %  |
| Chronic renal disease.....          | 4.5 %  |
| Chronic pulmonary disease.....      | 17.1 % |
| Cerebrovascular degeneration.....   | 3.6 %  |
| Diabetes mellitus.....              | 7.3 %  |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

|                     |        |
|---------------------|--------|
| County/City .....   | 52.8%  |
| State .....         | 45.3%  |
| Outside State ..... | 1.9%   |
| Total .....         | 100.0% |

### MEDICARE AVERAGE LENGTH OF STAY:

|                |          |
|----------------|----------|
| Hospital ..... | 8.6 Days |
| State .....    | 8.2 Days |
| National ..... | 8.6 Days |

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

|                            |                  |
|----------------------------|------------------|
| Total Beds .....           | 276              |
| Occupancy Rate .....       | 68.0 %           |
| Ownership/Control.....     | Local Government |
| Medicare Discharges .....  | (Not Available)  |
| Case Mix Index (CMI) ..... | 1.2419           |

### STAFFING:

|                                                           |        |
|-----------------------------------------------------------|--------|
| Total Number of Physicians.....                           | 91     |
| Percent of Physicians Board<br>Certified Specialists..... | 64.8 % |
| Medical Residents/Interns .....                           | 0      |
| Registered Nurses.....                                    | 297    |
| Licensed Practical Nurses .....                           | 19     |

### SPECIALTY SERVICES:

|                                       |     |
|---------------------------------------|-----|
| Burn Unit .....                       | No  |
| Cardiac Intensive Care .....          | No  |
| Comprehensive Geriatric .....         | Yes |
| Hospice Care .....                    | Yes |
| Medical/Surgical Intensive Care ..... | Yes |
| Organ/Tissue Transplant .....         | No  |
| Other Intensive Care .....            | No  |
| Trauma Center .....                   | No  |

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

|                           |     |
|---------------------------|-----|
| Alcohol/Drug .....        | No  |
| Rehabilitation.....       | No  |
| Psychiatric .....         | Yes |
| Medicare Swing Beds ..... | No  |

\*\* Except for CMI

\* Not used in calculating mortality rates

# HARLAN APPALACHIAN REGIONAL HOSPITAL

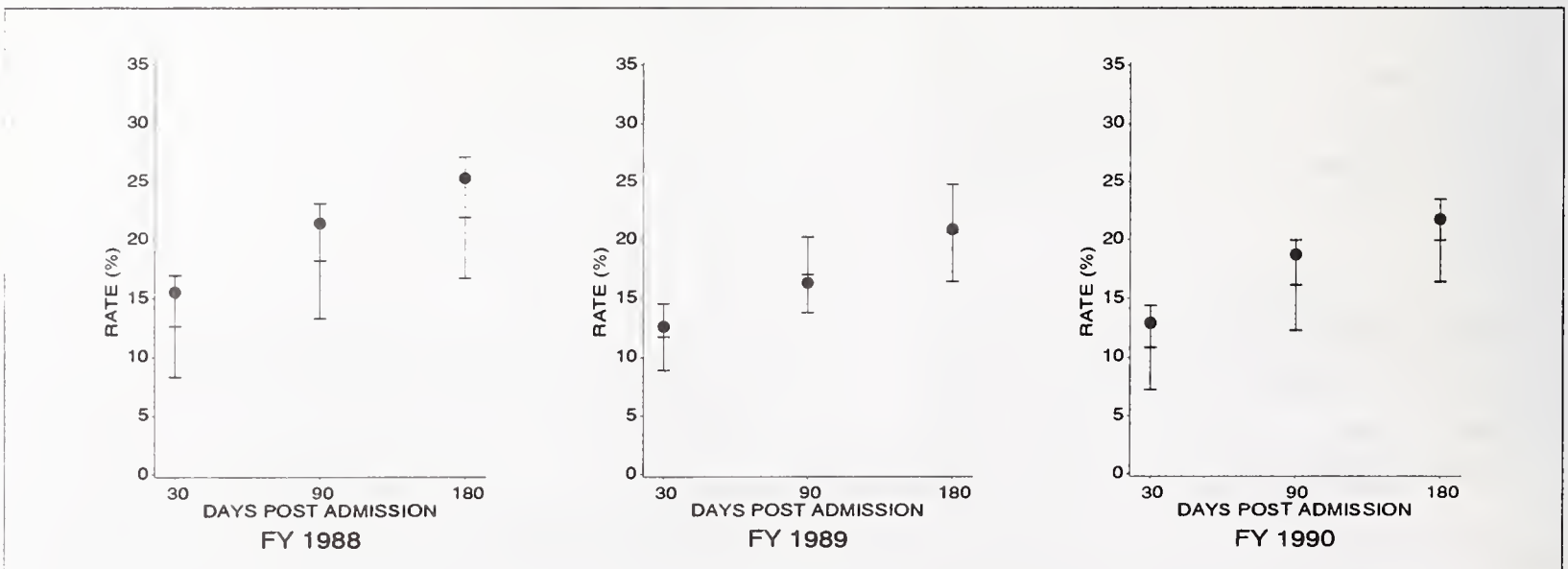
MARTINS FORK RD  
HARLAN, KY 40831  
Medicare Provider Number: 180050

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 696             | 12.9                | 10.8 | 1.8   | 18.7    | 16.1 | 1.9   | 21.7     | 19.9 | 1.8   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 25              | 28.0                | 24.1 | ----- | 32.0    | 26.4 | ----- | 32.0     | 29.0 | ----- |
| Congestive Heart Failure.....              | 48              | 12.5                | 12.0 | ----- | 22.9    | 19.8 | ----- | 25.0     | 25.8 | ----- |
| Pneumonia/Influenza.....                   | 73              | 8.2                 | 12.6 | 5.8   | 15.1    | 17.5 | 4.9   | 20.5     | 21.1 | 5.2   |
| Chronic Obstructive Pulmonary Disease..... | 18              | 0.0                 | 6.8  | ----- | 5.6     | 12.0 | ----- | 5.6      | 16.3 | ----- |
| Transient Cerebral Ischemia.....           | 5               | 0.0                 | 1.9  | ----- | 0.0     | 4.5  | ----- | 0.0      | 7.5  | ----- |
| Stroke.....                                | 34              | 26.5                | 17.1 | ----- | 38.2    | 24.4 | ----- | 41.2     | 28.7 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 16              | 25.0                | 23.6 | ----- | 25.0    | 30.3 | ----- | 31.3     | 34.6 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 1               | 0.0                 | 1.9  | ----- | 0.0     | 3.3  | ----- | 0.0      | 4.9  | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 22              | 9.1                 | 0.6  | ----- | 13.6    | 1.4  | ----- | 18.2     | 2.4  | ----- |
| Cholecystectomy.....                       | 19              | 5.3                 | 3.6  | ----- | 5.3     | 6.6  | ----- | 5.3      | 8.7  | ----- |
| Hysterectomy.....                          | 9               | 0.0                 | 0.1  | ----- | 0.0     | 0.1  | ----- | 0.0      | 0.3  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# HARLAN APPALACHIAN REGIONAL HOSPITAL

Medicare Provider Number: 180050

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 73.0 years  
Proportion female..... 54.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 83.8 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 5.3 %  
Admitted for emergency..... 66.5 %

### COMORBIDITIES:

Cancer..... 5.5 %  
Chronic cardiovascular disease..... 42.0 %  
Chronic liver disease..... 0.7 %  
Chronic renal disease..... 2.3 %  
Chronic pulmonary disease..... 37.8 %  
Cerebrovascular degeneration..... 3.2 %  
Diabetes mellitus..... 14.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 93.6%  
State ..... 5.0%  
Outside State ..... 1.4%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.4 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 95  
Occupancy Rate ..... 40.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 27.6 %  
Case Mix Index (CMI) ..... 1.2965

### STAFFING:

Total Number of Physicians..... 24  
Percent of Physicians Board  
Certified Specialists ..... 79.2 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 62  
Licensed Practical Nurses ..... 25

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# HARRISON MEMORIAL HOSPITAL

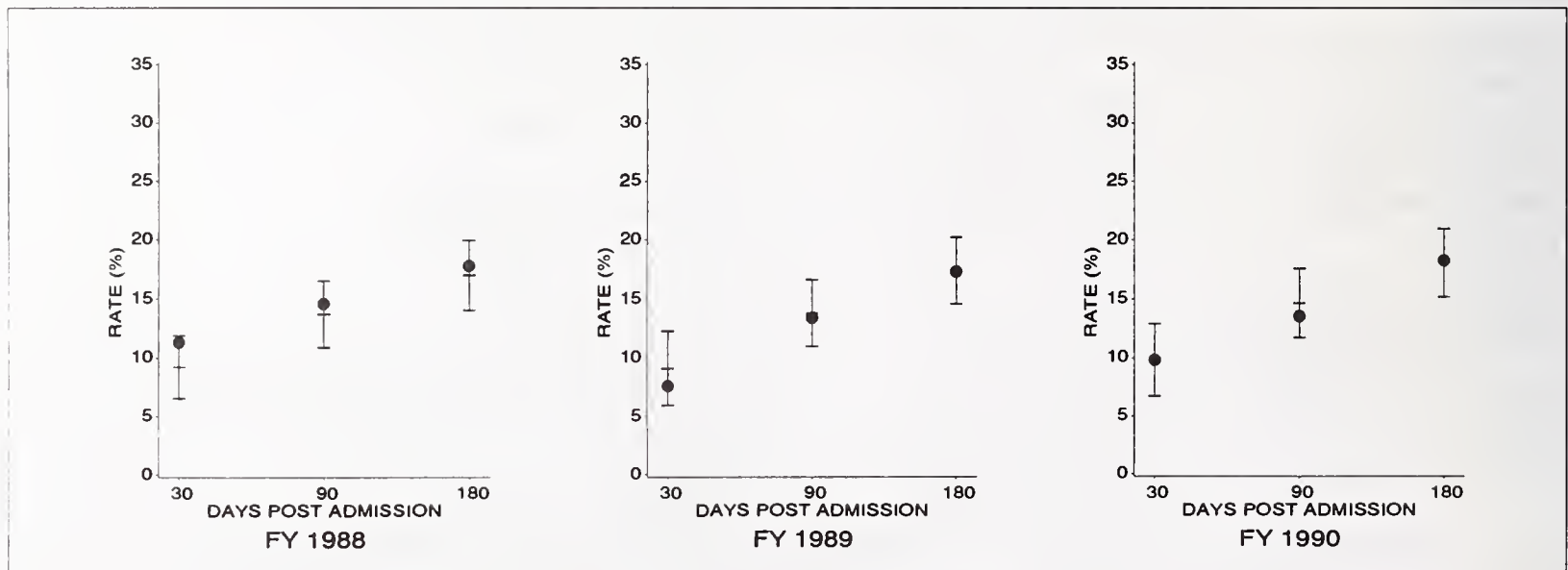
MILLERSBURG PIKE, BOX 250  
CYNTHIANA, KY 41031  
Medicare Provider Number: 180079

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 758             | 9.8                 | 9.8  | 1.5   | 13.5    | 14.6 | 1.5   | 18.2     | 18.0 | 1.4   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 28              | 39.3                | 26.8 | ----- | 39.3    | 29.4 | ----- | 46.4     | 31.9 | ----- |
| Congestive Heart Failure.....              | 42              | 19.0                | 15.1 | ----- | 23.8    | 24.4 | ----- | 38.1     | 31.1 | ----- |
| Pneumonia/Influenza.....                   | 116             | 13.8                | 15.1 | 3.6   | 19.0    | 20.8 | 4.1   | 24.1     | 24.6 | 4.6   |
| Chronic Obstructive Pulmonary Disease..... | 11              | 9.1                 | 11.8 | ----- | 18.2    | 20.5 | ----- | 18.2     | 26.5 | ----- |
| Transient Cerebral Ischemia.....           | 25              | 4.0                 | 1.4  | ----- | 4.0     | 3.5  | ----- | 4.0      | 6.1  | ----- |
| Stroke.....                                | 37              | 18.9                | 21.4 | ----- | 24.3    | 28.4 | ----- | 35.1     | 32.5 | ----- |
| Hip Fracture.....                          | 17              | 5.9                 | 5.9  | ----- | 5.9     | 10.9 | ----- | 5.9      | 14.9 | ----- |
| Sepsis.....                                | 0               |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 1               | 100.0               | 1.1  | ----- | 100.0   | 2.5  | ----- | 100.0    | 4.1  | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 4               | 0.0                 | 3.8  | ----- | 0.0     | 7.3  | ----- | 0.0      | 10.0 | ----- |
| Open Reduction of Hip Fracture.....        | 10              | 0.0                 | 6.2  | ----- | 0.0     | 11.8 | ----- | 0.0      | 16.4 | ----- |
| Prostatectomy.....                         | 2               | 0.0                 | 0.9  | ----- | 0.0     | 2.1  | ----- | 0.0      | 3.9  | ----- |
| Cholecystectomy.....                       | 7               | 0.0                 | 0.7  | ----- | 0.0     | 1.4  | ----- | 0.0      | 2.0  | ----- |
| Hysterectomy.....                          | 2               | 0.0                 | 0.1  | ----- | 0.0     | 0.2  | ----- | 0.0      | 0.3  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HARRISON MEMORIAL HOSPITAL

Medicare Provider Number: 180079

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.3 years  
Proportion female..... 58.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 52.9 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 1.6 %  
Admitted for emergency..... 63.7 %

### COMORBIDITIES:

Cancer..... 4.1 %  
Chronic cardiovascular disease..... 30.6 %  
Chronic liver disease..... 0.3 %  
Chronic renal disease..... 1.6 %  
Chronic pulmonary disease..... 16.4 %  
Cerebrovascular degeneration..... 3.7 %  
Diabetes mellitus..... 9.5 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 65.0%  
State ..... 34.0%  
Outside State ..... 1.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 7.5 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 99  
Occupancy Rate ..... 70.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 49.8 %  
Case Mix Index (CMI) ..... 0.9959

### STAFFING:

Total Number of Physicians..... 12  
Percent of Physicians Board  
Certified Specialists ..... 66.7 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 33  
Licensed Practical Nurses ..... 11

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# HCA GREENVIEW HOSPITAL

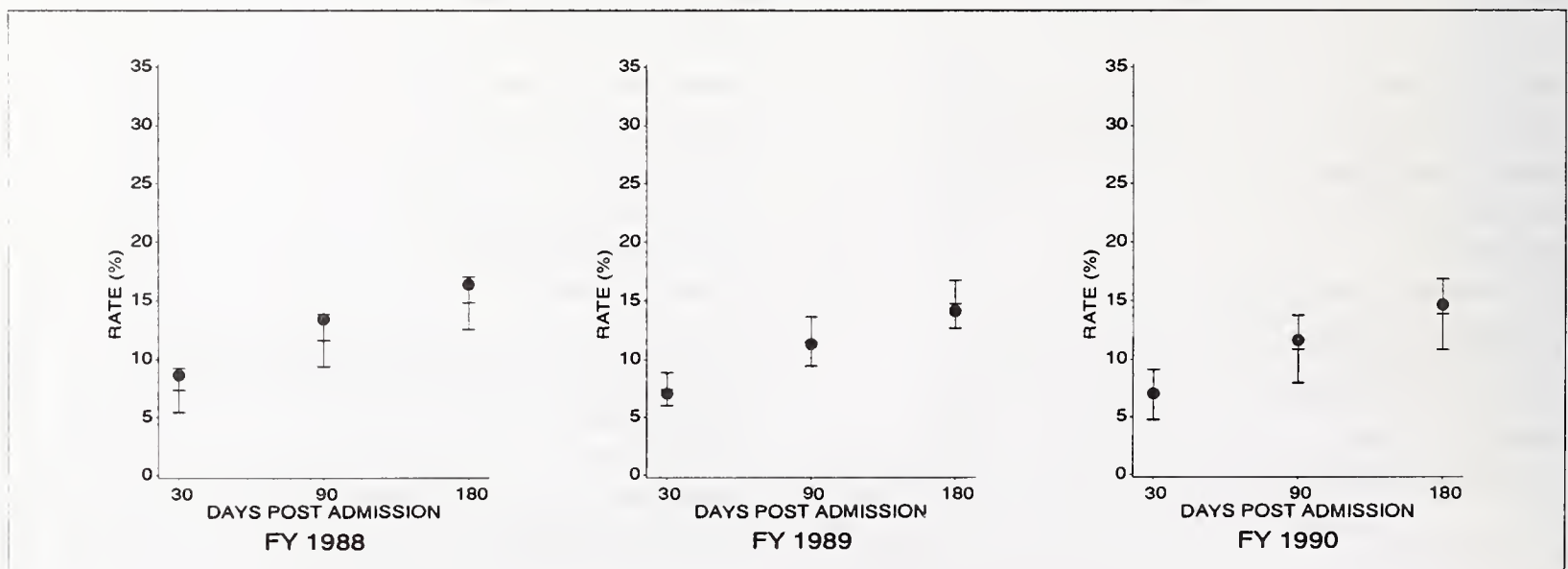
1801 ASHLEY CIRCLE  
BOWLING GREEN, KY 42101  
Medicare Provider Number: 180124

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1718            | 7.0                 | 6.9  | 1.1   | 11.6    | 10.8 | 1.5   | 14.6     | 13.8 | 1.5   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 43              | 27.9                | 22.4 | ----- | 32.6    | 25.4 | ----- | 37.2     | 28.1 | ----- |
| Congestive Heart Failure.....              | 60              | 18.3                | 12.8 | 6.3   | 25.0    | 20.7 | 6.2   | 26.7     | 26.8 | 6.2   |
| Pneumonia/Influenza.....                   | 106             | 13.2                | 13.6 | 4.0   | 20.8    | 19.0 | 5.2   | 23.6     | 22.6 | 5.1   |
| Chronic Obstructive Pulmonary Disease..... | 13              | 7.7                 | 6.9  | ----- | 15.4    | 11.8 | ----- | 23.1     | 16.5 | ----- |
| Transient Cerebral Ischemia.....           | 24              | 0.0                 | 2.3  | ----- | 4.2     | 4.8  | ----- | 4.2      | 7.2  | ----- |
| Stroke.....                                | 48              | 29.2                | 22.0 | ----- | 41.7    | 28.6 | ----- | 45.8     | 32.5 | ----- |
| Hip Fracture.....                          | 70              | 8.6                 | 6.0  | 3.4   | 17.1    | 10.7 | 5.5   | 21.4     | 14.0 | 6.6   |
| Sepsis.....                                | 6               | 16.7                | 21.5 | ----- | 50.0    | 33.5 | ----- | 50.0     | 39.9 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 6               | 0.0                 | 3.3  | ----- | 0.0     | 6.7  | ----- | 0.0      | 9.6  | ----- |
| Carotid Endarterectomy.....                | 15              | 0.0                 | 1.4  | ----- | 0.0     | 2.6  | ----- | 0.0      | 3.8  | ----- |
| Hip Replacement/Reconstruction.....        | 58              | 6.9                 | 3.1  | 4.2   | 10.3    | 5.7  | 5.2   | 10.3     | 7.7  | 5.2   |
| Open Reduction of Hip Fracture.....        | 36              | 5.6                 | 5.8  | ----- | 16.7    | 10.6 | ----- | 25.0     | 14.1 | ----- |
| Prostatectomy.....                         | 55              | 0.0                 | 1.2  | 1.9   | 1.8     | 2.8  | 2.4   | 3.6      | 4.7  | 3.0   |
| Cholecystectomy.....                       | 41              | 0.0                 | 1.5  | ----- | 0.0     | 2.8  | ----- | 0.0      | 3.9  | ----- |
| Hysterectomy.....                          | 17              | 0.0                 | 0.5  | ----- | 0.0     | 1.2  | ----- | 0.0      | 1.9  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HCA GREENVIEW HOSPITAL

Medicare Provider Number: 180124

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 73.5 years  
Proportion female..... 58.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 98.3 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 20.3 %  
Admitted for emergency..... 78.1 %

### COMORBIDITIES:

Cancer..... 7.0 %  
Chronic cardiovascular disease..... 36.9 %  
Chronic liver disease..... 0.5 %  
Chronic renal disease..... 2.6 %  
Chronic pulmonary disease..... 12.4 %  
Cerebrovascular degeneration..... 2.6 %  
Diabetes mellitus..... 6.5 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 60.2%  
State ..... 38.0%  
Outside State ..... 1.8%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.2 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 211  
Occupancy Rate ..... 51.0 %  
Ownership/Control..... Private, For Profit  
Medicare Discharges ..... 46.2 %  
Case Mix Index (CMI) ..... 1.2170

### STAFFING:

Total Number of Physicians..... 147  
Percent of Physicians Board  
Certified Specialists ..... 64.6 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 153  
Licensed Practical Nurses ..... 42

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... Yes  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# HCA KINGS DAUGHTERS MEMORIAL HOSPITAL

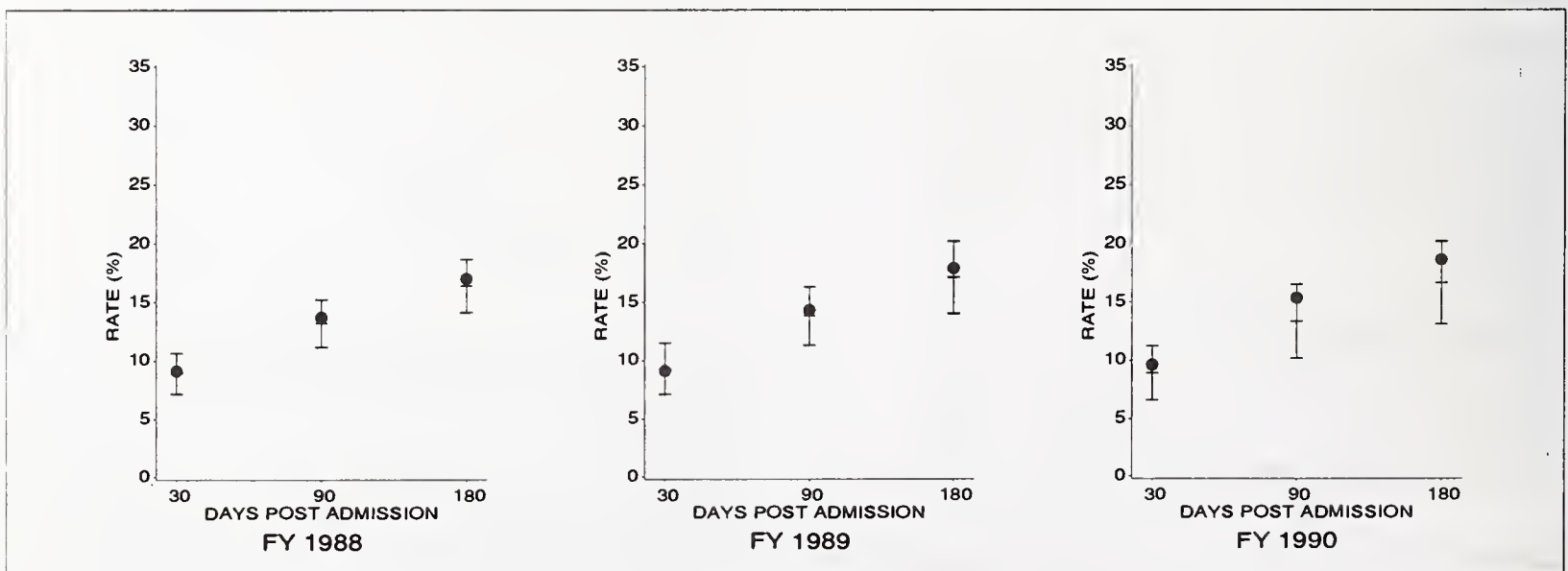
299 KINGS DAUGHTERS DRIVE  
FRANKFORT, KY 40601  
Medicare Provider Number: 180127

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1225            | 9.6                 | 8.9  | 1.2   | 15.3    | 13.3 | 1.6   | 18.6     | 16.6 | 1.8   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 39              | 38.5                | 25.4 | ----- | 38.5    | 28.9 | ----- | 41.0     | 31.8 | ----- |
| Congestive Heart Failure.....              | 55              | 12.7                | 12.9 | 4.7   | 20.0    | 20.3 | 5.7   | 25.5     | 26.1 | 5.9   |
| Pneumonia/Influenza.....                   | 107             | 21.5                | 16.9 | 4.5   | 30.8    | 23.0 | 6.0   | 39.3     | 27.2 | 6.7   |
| Chronic Obstructive Pulmonary Disease..... | 19              | 5.3                 | 5.8  | ----- | 10.5    | 11.0 | ----- | 10.5     | 15.4 | ----- |
| Transient Cerebral Ischemia.....           | 21              | 0.0                 | 1.8  | ----- | 4.8     | 4.2  | ----- | 4.8      | 6.9  | ----- |
| Stroke.....                                | 51              | 19.6                | 17.1 | 9.4   | 33.3    | 24.7 | 13.2  | 35.3     | 28.5 | 14.4  |
| Hip Fracture.....                          | 29              | 10.3                | 8.2  | ----- | 17.2    | 14.1 | ----- | 20.7     | 17.7 | ----- |
| Sepsis.....                                | 9               | 11.1                | 18.6 | ----- | 33.3    | 25.3 | ----- | 33.3     | 29.8 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 1               | 0.0                 | 6.8  | ----- | 0.0     | 13.9 | ----- | 100.0    | 19.0 | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 18              | 11.1                | 3.4  | ----- | 16.7    | 6.6  | ----- | 16.7     | 8.8  | ----- |
| Open Reduction of Hip Fracture.....        | 16              | 0.0                 | 8.3  | ----- | 6.3     | 15.0 | ----- | 12.5     | 19.3 | ----- |
| Prostatectomy.....                         | 33              | 0.0                 | 1.1  | ----- | 0.0     | 2.4  | ----- | 0.0      | 4.0  | ----- |
| Cholecystectomy.....                       | 23              | 4.3                 | 4.1  | ----- | 4.3     | 7.4  | ----- | 4.3      | 9.5  | ----- |
| Hysterectomy.....                          | 3               | 0.0                 | 0.1  | ----- | 0.0     | 0.3  | ----- | 0.0      | 0.4  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (\*) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# HCA KINGS DAUGHTERS MEMORIAL HOSPITAL

Medicare Provider Number: 180127

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 74.8 years  
Proportion female..... 59.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 31.8 %  
Transferred from skilled nursing facility..... 1.1 %  
Admitted for elective procedure..... 8.2 %  
Admitted for emergency..... 66.3 %

### COMORBIDITIES:

Cancer..... 3.8 %  
Chronic cardiovascular disease..... 41.9 %  
Chronic liver disease..... 0.9 %  
Chronic renal disease..... 1.8 %  
Chronic pulmonary disease..... 21.1 %  
Cerebrovascular degeneration..... 7.2 %  
Diabetes mellitus..... 10.3 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 76.2%  
State ..... 22.9%  
Outside State ..... 0.9%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.1 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 153  
Occupancy Rate ..... 52.0 %  
Ownership/Control..... Private, For Profit  
Medicare Discharges ..... 38.5 %  
Case Mix Index (CMI) ..... 1.1338

### STAFFING:

Total Number of Physicians..... 44  
Percent of Physicians Board  
Certified Specialists ..... 86.4 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 107  
Licensed Practical Nurses ..... 3

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# HCA SCOTT GENERAL HOSPITAL

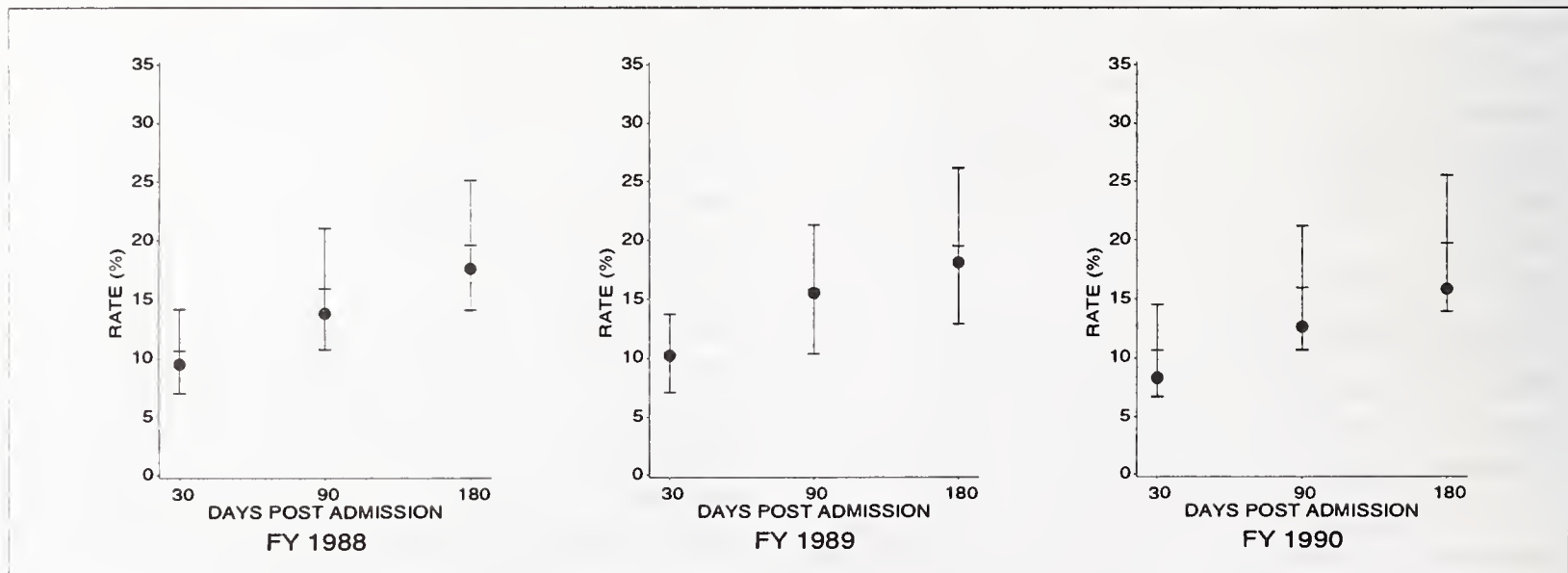
1140 LEXINGTON RD  
GEORGETOWN, KY 40324  
Medicare Provider Number: 180101

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 348             | 8.3                 | 10.6 | 2.0   | 12.6    | 15.9 | 2.6   | 15.8     | 19.7 | 2.9   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 21              | 23.8                | 19.9 | ----- | 23.8    | 22.2 | ----- | 23.8     | 24.4 | ----- |
| Congestive Heart Failure.....              | 15              | 20.0                | 15.4 | ----- | 20.0    | 23.0 | ----- | 26.7     | 29.1 | ----- |
| Pneumonia/Influenza.....                   | 38              | 10.5                | 18.0 | ----- | 13.2    | 24.9 | ----- | 18.4     | 29.1 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 16              | 0.0                 | 10.0 | ----- | 12.5    | 17.5 | ----- | 25.0     | 22.6 | ----- |
| Transient Cerebral Ischemia.....           | 2               | 0.0                 | 1.9  | ----- | 50.0    | 4.3  | ----- | 50.0     | 7.0  | ----- |
| Stroke.....                                | 11              | 0.0                 | 16.9 | ----- | 9.1     | 24.1 | ----- | 9.1      | 28.6 | ----- |
| Hip Fracture.....                          | 14              | 0.0                 | 7.2  | ----- | 0.0     | 12.4 | ----- | 0.0      | 16.3 | ----- |
| Sepsis.....                                | 3               | 33.3                | 37.7 | ----- | 33.3    | 48.1 | ----- | 33.3     | 55.5 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 1               | 0.0                 | 0.7  | ----- | 0.0     | 1.5  | ----- | 0.0      | 2.6  | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 6               | 0.0                 | 9.6  | ----- | 0.0     | 16.7 | ----- | 0.0      | 21.4 | ----- |
| Open Reduction of Hip Fracture.....        | 8               | 0.0                 | 4.6  | ----- | 0.0     | 8.1  | ----- | 0.0      | 11.2 | ----- |
| Prostatectomy.....                         | 2               | 0.0                 | 0.3  | ----- | 0.0     | 0.7  | ----- | 0.0      | 1.3  | ----- |
| Cholecystectomy.....                       | 6               | 0.0                 | 1.5  | ----- | 0.0     | 2.5  | ----- | 0.0      | 3.2  | ----- |
| Hysterectomy.....                          | 2               | 0.0                 | 0.2  | ----- | 0.0     | 0.4  | ----- | 0.0      | 0.8  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HCA SCOTT GENERAL HOSPITAL

Medicare Provider Number: 180101

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.8 years  
Proportion female..... 60.9 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 33.0 %  
Transferred from skilled nursing facility..... 3.4 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 8.6 %

### COMORBIDITIES:

Cancer..... 5.7 %  
Chronic cardiovascular disease..... 41.4 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 1.4 %  
Chronic pulmonary disease..... 18.4 %  
Cerebrovascular degeneration..... 4.0 %  
Diabetes mellitus..... 5.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 87.4%  
State ..... 10.8%  
Outside State ..... 1.8%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.6 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 52  
Occupancy Rate ..... 30.0 %  
Ownership/Control..... Private, For Profit  
Medicare Discharges ..... 43.1 %  
Case Mix Index (CMI) ..... 1.2321

### STAFFING:

Total Number of Physicians..... 29  
Percent of Physicians Board  
Certified Specialists..... 65.5 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 33  
Licensed Practical Nurses ..... 7

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



# HIGHLANDS REGIONAL MEDICAL CENTER

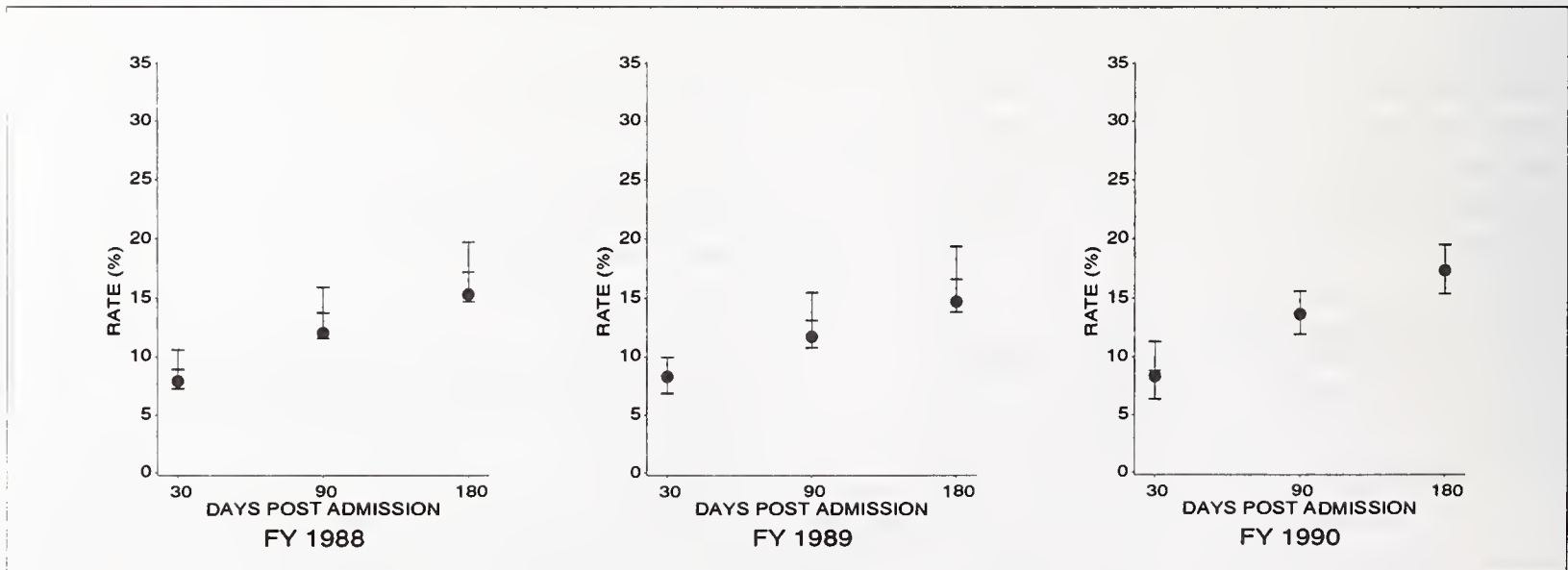
US 23 N BOX 668  
PRESTONSBURG, KY 41653  
Medicare Provider Number: 180005

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1526               | 8.3                 | 8.8  | 1.2   | 13.6    | 13.7 | 0.9   | 17.3     | 17.4 | 1.0   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 54                 | 22.2                | 25.2 | 6.4   | 24.1    | 28.0 | 7.0   | 27.8     | 30.6 | 6.7   |
| Congestive Heart Failure.....              | 98                 | 15.3                | 14.1 | 5.6   | 23.5    | 22.5 | 4.5   | 28.6     | 28.8 | 4.6   |
| Pneumonia/Influenza.....                   | 61                 | 4.9                 | 13.6 | 6.9   | 9.8     | 19.3 | 7.6   | 16.4     | 23.5 | 7.3   |
| Chronic Obstructive Pulmonary Disease..... | 101                | 3.0                 | 5.1  | 2.6   | 7.9     | 10.1 | 3.8   | 8.9      | 14.4 | 5.1   |
| Transient Cerebral Ischemia.....           | 37                 | 0.0                 | 1.9  | ----- | 2.7     | 4.4  | ----- | 2.7      | 7.4  | ----- |
| Stroke.....                                | 38                 | 21.1                | 19.6 | ----- | 23.7    | 26.5 | ----- | 31.6     | 30.7 | ----- |
| Hip Fracture.....                          | 12                 | 25.0                | 10.9 | ----- | 25.0    | 18.4 | ----- | 33.3     | 22.7 | ----- |
| Sepsis.....                                | 11                 | 36.4                | 21.2 | ----- | 45.5    | 31.7 | ----- | 45.5     | 37.6 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 1                  | 0.0                 | 1.6  | ----- | 0.0     | 3.1  | ----- | 0.0      | 4.0  | ----- |
| Open Reduction of Hip Fracture.....        | 7                  | 14.3                | 8.9  | ----- | 14.3    | 16.3 | ----- | 28.6     | 21.3 | ----- |
| Prostatectomy.....                         | 27                 | 3.7                 | 0.9  | ----- | 3.7     | 2.0  | ----- | 7.4      | 3.5  | ----- |
| Cholecystectomy.....                       | 17                 | 5.9                 | 2.7  | ----- | 11.8    | 5.3  | ----- | 11.8     | 7.2  | ----- |
| Hysterectomy.....                          | 4                  | 0.0                 | 0.4  | ----- | 0.0     | 1.0  | ----- | 0.0      | 1.7  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HIGHLANDS REGIONAL MEDICAL CENTER

Medicare Provider Number: 180005

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 71.6 years  
Proportion female..... 54.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 50.2 %  
Transferred from skilled nursing facility..... 0.1 %  
Admitted for elective procedure..... 3.2 %  
Admitted for emergency..... 5.0 %

### COMORBIDITIES:

Cancer..... 5.5 %  
Chronic cardiovascular disease..... 41.2 %  
Chronic liver disease..... 0.9 %  
Chronic renal disease..... 4.5 %  
Chronic pulmonary disease..... 36.8 %  
Cerebrovascular degeneration..... 3.5 %  
Diabetes mellitus..... 14.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 51.1%  
State..... 47.8%  
Outside State..... 1.1%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 7.2 Days  
State..... 8.2 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 184  
Occupancy Rate..... 53.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges..... 44.7 %  
Case Mix Index (CMI)..... 1.0243

### STAFFING:

Total Number of Physicians..... 36  
Percent of Physicians Board  
Certified Specialists..... 75.0 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 96  
Licensed Practical Nurses..... 55

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... Yes

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# HUMANA HOSPITAL AUDUBON

1 AUDUBON PLAZA DR, BOX 17555

LOUISVILLE, KY 40217

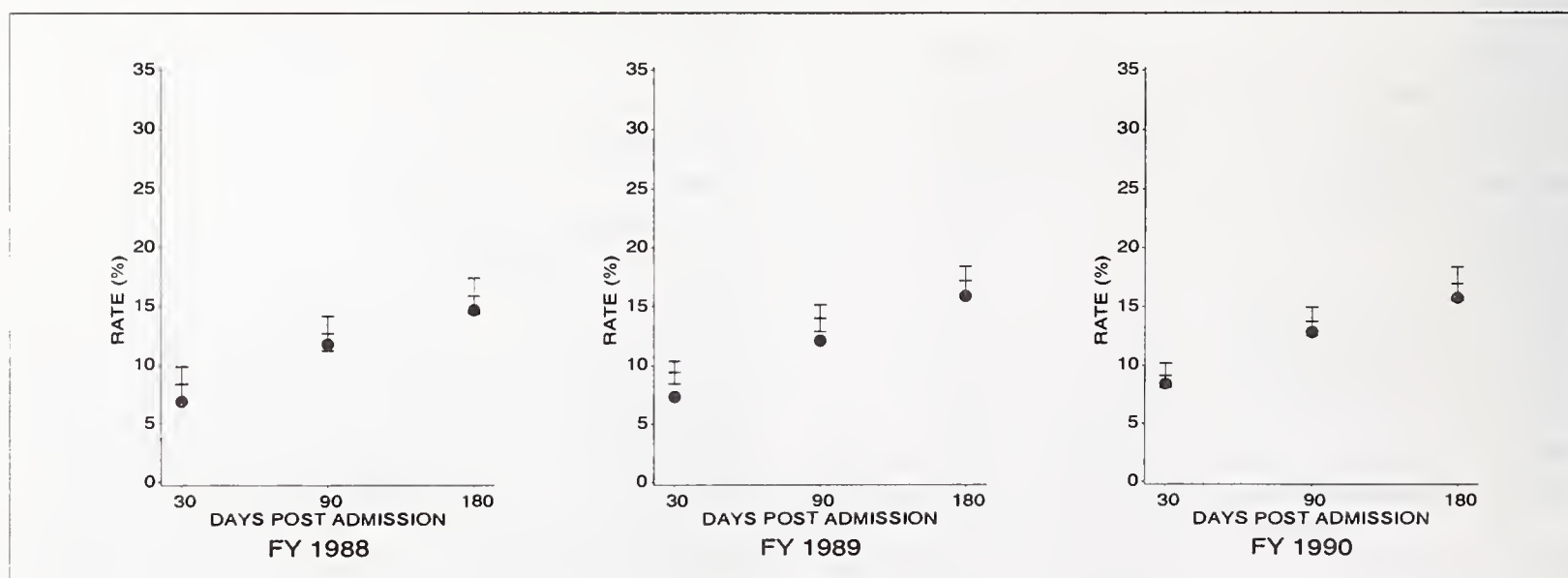
Medicare Provider Number: 180014

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|-----------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                 | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                 | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 4568            | 8.4                 | 9.1  | 0.5  | 12.8    | 13.7 | 0.6  | 15.7     | 16.9 | 0.7  |
| CONDITIONS:                                |                 |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 119             | 30.3                | 25.7 | 7.0  | 35.3    | 28.4 | 6.7  | 37.0     | 30.7 | 6.4  |
| Congestive Heart Failure.....              | 213             | 10.8                | 13.7 | 4.8  | 17.8    | 21.7 | 5.4  | 23.0     | 27.7 | 5.4  |
| Pneumonia/Influenza.....                   | 175             | 8.6                 | 14.5 | 3.8  | 17.1    | 19.8 | 3.3  | 24.0     | 23.4 | 4.2  |
| Chronic Obstructive Pulmonary Disease..... | 117             | 7.7                 | 7.6  | 3.1  | 17.1    | 13.8 | 4.0  | 21.4     | 18.5 | 4.1  |
| Transient Cerebral Ischemia.....           | 114             | 1.8                 | 1.6  | 1.3  | 2.6     | 3.3  | 2.4  | 3.5      | 5.3  | 3.7  |
| Stroke.....                                | 155             | 14.8                | 17.8 | 4.7  | 20.6    | 23.7 | 5.4  | 25.2     | 27.2 | 6.7  |
| Hip Fracture.....                          | 68              | 4.4                 | 6.7  | 3.7  | 10.3    | 11.5 | 4.9  | 13.2     | 14.7 | 4.9  |
| Sepsis.....                                | 65              | 33.8                | 26.4 | 11.3 | 43.1    | 34.3 | 11.2 | 43.1     | 38.8 | 10.2 |
| PROCEDURES:                                |                 |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 55              | 1.8                 | 3.1  | 2.5  | 1.8     | 4.4  | 3.4  | 1.8      | 5.5  | 4.1  |
| Coronary Artery Bypass Graft.....          | 187             | 7.0                 | 5.8  | 1.9  | 8.6     | 8.3  | 2.0  | 9.1      | 9.5  | 2.2  |
| Initial Pacemaker Insertion.....           | 34              | 0.0                 | 3.4  | ---- | 2.9     | 6.3  | ---- | 2.9      | 8.5  | ---- |
| Carotid Endarterectomy.....                | 31              | 6.5                 | 1.8  | ---- | 6.5     | 3.2  | ---- | 9.7      | 4.5  | ---- |
| Hip Replacement/Reconstruction.....        | 48              | 2.1                 | 2.6  | ---- | 4.2     | 4.7  | ---- | 4.2      | 6.3  | ---- |
| Open Reduction of Hip Fracture.....        | 36              | 2.8                 | 5.7  | ---- | 8.3     | 10.0 | ---- | 13.9     | 13.1 | ---- |
| Prostatectomy.....                         | 112             | 0.9                 | 1.1  | 1.5  | 0.9     | 2.5  | 3.8  | 6.2      | 4.1  | 3.3  |
| Cholecystectomy.....                       | 97              | 4.1                 | 3.6  | 2.3  | 6.2     | 6.7  | 3.1  | 7.2      | 9.0  | 3.5  |
| Hysterectomy.....                          | 18              | 0.0                 | 0.7  | ---- | 0.0     | 1.7  | ---- | 5.6      | 2.7  | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# HUMANA HOSPITAL AUDUBON

Medicare Provider Number: 180014

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 72.9 years  
Proportion female..... 56.4 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 57.5 %  
Transferred from skilled nursing facility..... 0.1 %  
Admitted for elective procedure..... 2.9 %  
Admitted for emergency..... 51.9 %

### COMORBIDITIES:

Cancer..... 6.8 %  
Chronic cardiovascular disease..... 42.9 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 2.7 %  
Chronic pulmonary disease..... 20.2 %  
Cerebrovascular degeneration..... 2.4 %  
Diabetes mellitus..... 8.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 74.3%  
State ..... 20.3%  
Outside State ..... 5.4%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.4 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: Health Care Financing Administration (OSCAR)\*\* - Survey Year 1991

### PROFILE:

Total Beds ..... 480  
Ownership/Control..... Private, For Profit  
Case Mix Index (CMI) ..... 1.5063

### STAFFING:

Medical Residents/Interns ..... 3  
Registered Nurses..... 553  
Licensed Practical Nurses ..... 83

### SPECIALTY SERVICES:

Burn Unit ..... No  
Coronary Care Unit ..... Yes  
Hospice Care ..... Yes  
Intensive Care Unit ..... Yes  
Organ Transplant ..... Yes  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... Yes  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# HUMANA HOSPITAL LAKE CUMBERLAND

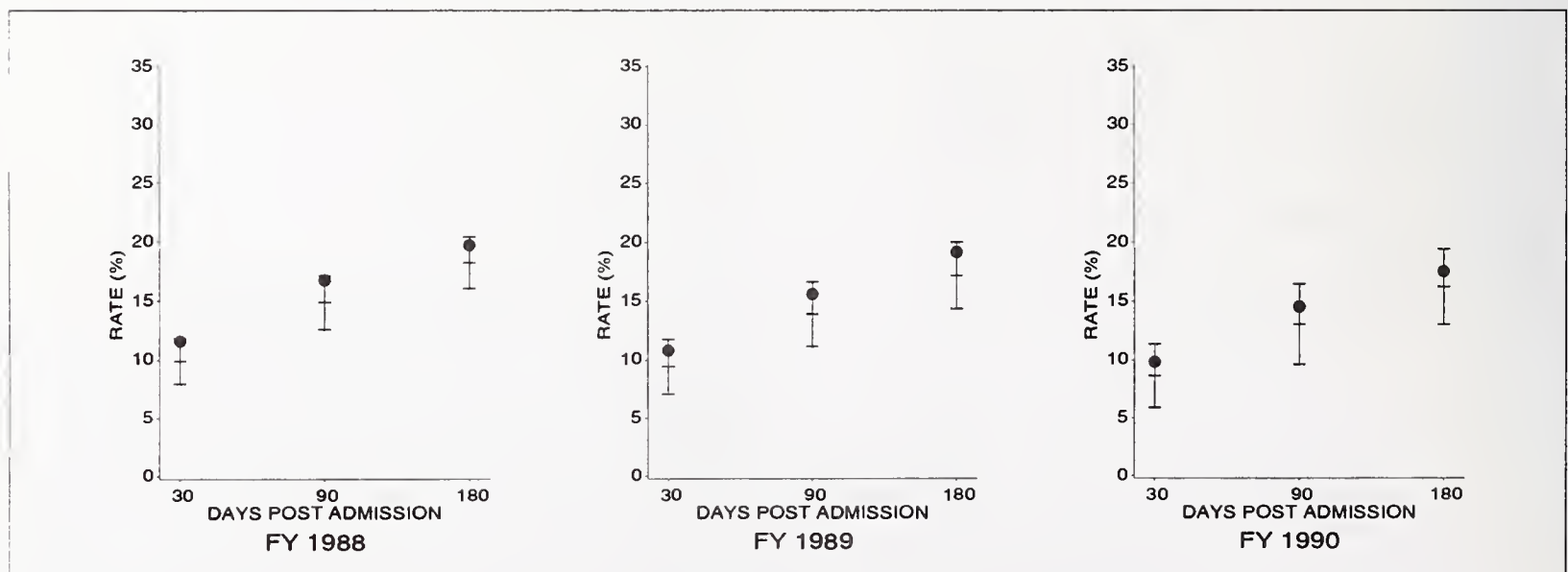
305 LANGDON ST  
SOMERSET, KY 42501  
Medicare Provider Number: 180132

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1588            | 9.8                 | 8.6  | 1.4   | 14.5    | 13.0 | 1.7   | 17.5     | 16.2 | 1.6   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 71              | 22.5                | 24.3 | 5.3   | 28.2    | 27.5 | 5.4   | 29.6     | 30.3 | 5.8   |
| Congestive Heart Failure.....              | 62              | 21.0                | 14.9 | 6.8   | 24.2    | 23.7 | 7.4   | 33.9     | 30.1 | 7.8   |
| Pneumonia/Influenza.....                   | 36              | 30.6                | 17.2 | ----- | 38.9    | 24.0 | ----- | 44.4     | 27.9 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 24              | 4.2                 | 4.5  | ----- | 12.5    | 8.3  | ----- | 20.8     | 11.5 | ----- |
| Transient Cerebral Ischemia.....           | 22              | 0.0                 | 1.4  | ----- | 0.0     | 3.3  | ----- | 4.5      | 5.5  | ----- |
| Stroke.....                                | 62              | 19.4                | 16.8 | 5.2   | 32.3    | 23.1 | 7.6   | 33.9     | 26.5 | 7.6   |
| Hip Fracture.....                          | 89              | 6.7                 | 5.2  | 2.7   | 7.9     | 9.3  | 3.3   | 10.1     | 12.4 | 4.2   |
| Sepsis.....                                | 10              | 20.0                | 24.5 | ----- | 30.0    | 30.4 | ----- | 30.0     | 34.3 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 4               | 0.0                 | 0.9  | ----- | 0.0     | 2.1  | ----- | 25.0     | 3.6  | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 31              | 3.2                 | 4.5  | ----- | 6.5     | 8.2  | ----- | 12.9     | 11.1 | ----- |
| Open Reduction of Hip Fracture.....        | 57              | 7.0                 | 4.8  | 3.2   | 7.0     | 8.9  | 4.0   | 7.0      | 12.1 | 5.6   |
| Prostatectomy.....                         | 79              | 0.0                 | 1.0  | 2.2   | 3.8     | 2.3  | 2.3   | 5.1      | 3.9  | 2.9   |
| Cholecystectomy.....                       | 57              | 1.8                 | 3.6  | 3.7   | 10.5    | 6.7  | 4.2   | 15.8     | 8.9  | 5.9   |
| Hysterectomy.....                          | 23              | 0.0                 | 0.3  | ----- | 8.7     | 0.7  | ----- | 8.7      | 1.2  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HUMANA HOSPITAL LAKE CUMBERLAND

Medicare Provider Number: 180132

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 72.9 years  
Proportion female..... 55.4 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 44.8 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 17.8 %  
Admitted for emergency..... 70.4 %

### COMORBIDITIES:

Cancer..... 6.4 %  
Chronic cardiovascular disease..... 37.2 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 3.5 %  
Chronic pulmonary disease..... 20.3 %  
Cerebrovascular degeneration..... 6.7 %  
Diabetes mellitus..... 4.4 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 57.7%  
State ..... 40.3%  
Outside State ..... 2.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.0 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 227  
Occupancy Rate ..... 49.0 %  
Ownership/Control..... Private, For Profit  
Medicare Discharges ..... 30.4 %  
Case Mix Index (CMI) ..... 1.2967

### STAFFING:

Total Number of Physicians..... 61  
Percent of Physicians Board  
Certified Specialists..... 75.4 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 121  
Licensed Practical Nurses ..... 49

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... Yes  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



# HUMANA HOSPITAL LEXINGTON

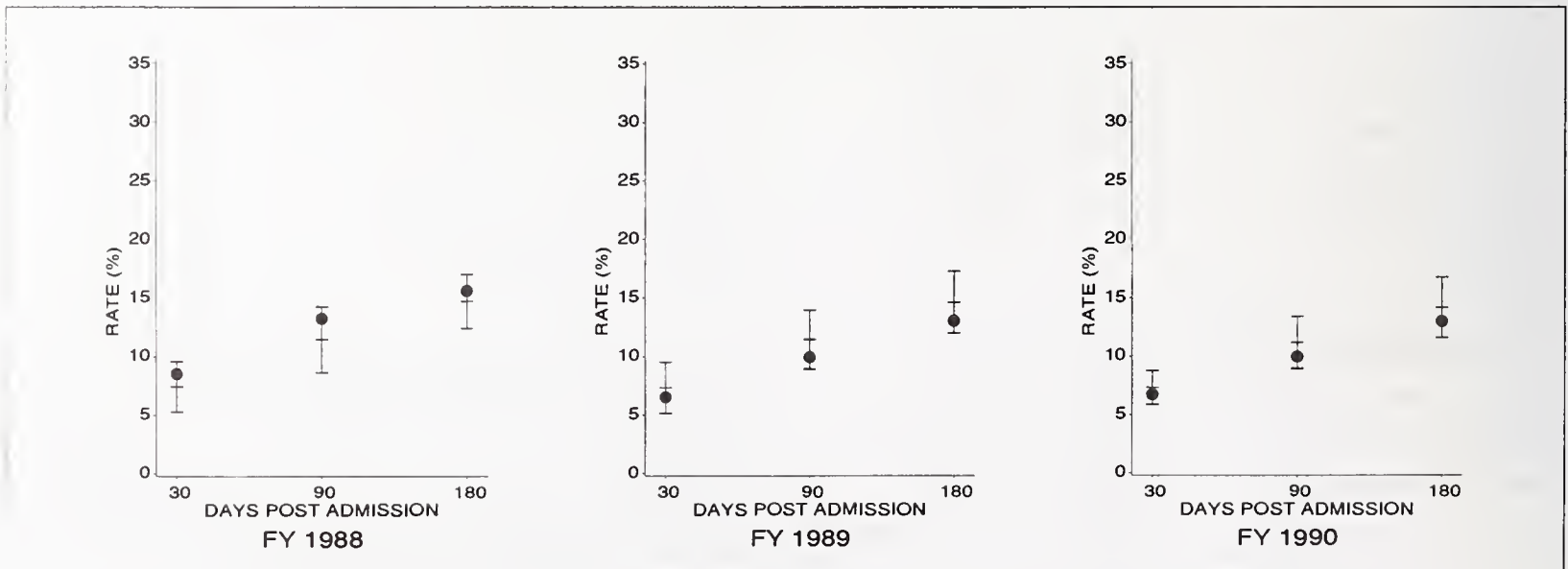
150 N EAGLE CREEK DRIVE  
LEXINGTON, KY 40523  
Medicare Provider Number: 180136

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1680            | 6.7                 | 7.3  | 0.7   | 9.9     | 11.1 | 1.1   | 12.9     | 14.1 | 1.3   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 49              | 22.4                | 21.4 | ----- | 22.4    | 24.0 | ----- | 28.6     | 26.5 | ----- |
| Congestive Heart Failure.....              | 43              | 9.3                 | 12.7 | ----- | 9.3     | 20.8 | ----- | 18.6     | 27.2 | ----- |
| Pneumonia/Influenza.....                   | 82              | 11.0                | 13.3 | 5.4   | 12.2    | 18.2 | 7.1   | 18.3     | 22.1 | 6.3   |
| Chronic Obstructive Pulmonary Disease..... | 45              | 0.0                 | 5.8  | ----- | 4.4     | 10.5 | ----- | 6.7      | 14.5 | ----- |
| Transient Cerebral Ischemia.....           | 25              | 4.0                 | 1.7  | ----- | 8.0     | 4.2  | ----- | 12.0     | 7.2  | ----- |
| Stroke.....                                | 53              | 22.6                | 21.1 | 7.6   | 30.2    | 25.8 | 10.2  | 32.1     | 29.3 | 9.2   |
| Hip Fracture.....                          | 37              | 2.7                 | 5.6  | ----- | 8.1     | 9.5  | ----- | 10.8     | 12.4 | ----- |
| Sepsis.....                                | 38              | 10.5                | 20.6 | ----- | 21.1    | 28.8 | ----- | 26.3     | 33.9 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 9               | 0.0                 | 1.7  | ----- | 11.1    | 3.7  | ----- | 11.1     | 6.0  | ----- |
| Carotid Endarterectomy.....                | 11              | 0.0                 | 1.7  | ----- | 0.0     | 3.3  | ----- | 0.0      | 4.8  | ----- |
| Hip Replacement/Reconstruction.....        | 31              | 3.2                 | 2.4  | ----- | 3.2     | 4.3  | ----- | 6.5      | 5.8  | ----- |
| Open Reduction of Hip Fracture.....        | 17              | 0.0                 | 5.1  | ----- | 5.9     | 8.7  | ----- | 11.8     | 11.3 | ----- |
| Prostatectomy.....                         | 91              | 0.0                 | 0.9  | 1.2   | 1.1     | 2.0  | 1.7   | 2.2      | 3.4  | 2.2   |
| Cholecystectomy.....                       | 34              | 2.9                 | 3.2  | ----- | 5.9     | 5.5  | ----- | 8.8      | 7.2  | ----- |
| Hysterectomy.....                          | 15              | 0.0                 | 0.4  | ----- | 0.0     | 0.8  | ----- | 0.0      | 1.3  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HUMANA HOSPITAL LEXINGTON

Medicare Provider Number: 180136

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 72.9 years  
Proportion female..... 56.9 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 51.2 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 47.6 %  
Admitted for emergency..... 49.6 %

### COMORBIDITIES:

Cancer..... 5.4 %  
Chronic cardiovascular disease..... 37.0 %  
Chronic liver disease..... 0.7 %  
Chronic renal disease..... 4.1 %  
Chronic pulmonary disease..... 23.3 %  
Cerebrovascular degeneration..... 3.9 %  
Diabetes mellitus..... 11.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 40.7%  
State ..... 56.1%  
Outside State ..... 3.2%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 7.3 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 140  
Occupancy Rate ..... 73.0 %  
Ownership/Control..... Private, For Profit  
Medicare Discharges ..... 32.1 %  
Case Mix Index (CMI) ..... 1.2705

### STAFFING:

Total Number of Physicians..... 224  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 179  
Licensed Practical Nurses ..... 52

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... Yes  
Other Intensive Care ..... No  
Trauma Center ..... No  
OTHER SPECIALTY/HOSPITAL-BASED SERVICES:  
Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# HUMANA HOSPITAL LOUISA

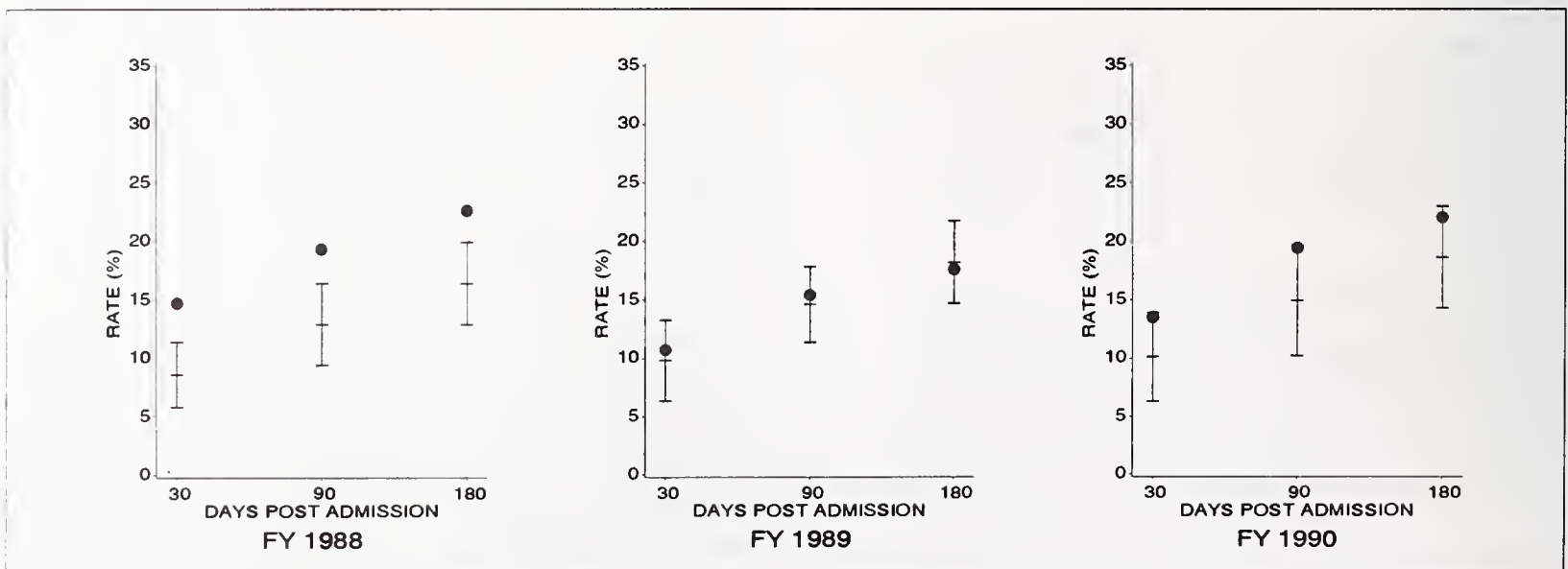
HIGHWAY 644, BOX 769  
LOUISA, KY 41230  
Medicare Provider Number: 180128

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 532                | 13.5                | 10.1 | 1.9   | 19.4    | 14.9 | 2.4   | 22.0     | 18.6 | 2.2   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 30                 | 40.0                | 30.0 | ----- | 43.3    | 32.3 | ----- | 43.3     | 34.9 | ----- |
| Congestive Heart Failure.....              | 29                 | 17.2                | 13.0 | ----- | 24.1    | 20.3 | ----- | 27.6     | 25.9 | ----- |
| Pneumonia/Influenza.....                   | 39                 | 2.6                 | 10.7 | ----- | 7.7     | 14.7 | ----- | 10.3     | 17.8 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 25                 | 8.0                 | 5.6  | ----- | 16.0    | 10.4 | ----- | 16.0     | 14.9 | ----- |
| Transient Cerebral Ischemia.....           | 6                  | 0.0                 | 1.7  | ----- | 0.0     | 3.9  | ----- | 0.0      | 6.3  | ----- |
| Stroke.....                                | 19                 | 31.6                | 23.0 | ----- | 42.1    | 29.4 | ----- | 42.1     | 33.4 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 5                  | 40.0                | 31.2 | ----- | 80.0    | 38.3 | ----- | 80.0     | 41.3 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 3                  | 0.0                 | 8.7  | ----- | 0.0     | 13.6 | ----- | 0.0      | 16.1 | ----- |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 14                 | 0.0                 | 0.9  | ----- | 0.0     | 2.1  | ----- | 0.0      | 3.7  | ----- |
| Cholecystectomy.....                       | 10                 | 0.0                 | 2.4  | ----- | 0.0     | 5.0  | ----- | 10.0     | 7.0  | ----- |
| Hysterectomy.....                          | 3                  | 0.0                 | 2.6  | ----- | 0.0     | 5.9  | ----- | 0.0      | 8.7  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# HUMANA HOSPITAL LOUISA

Medicare Provider Number: 180128

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 72.8 years  
Proportion female..... 52.3 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 33.6 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 11.3 %  
Admitted for emergency..... 67.9 %

### COMORBIDITIES:

Cancer..... 3.8 %  
Chronic cardiovascular disease..... 49.8 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 3.4 %  
Chronic pulmonary disease..... 48.5 %  
Cerebrovascular degeneration..... 5.1 %  
Diabetes mellitus..... 13.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 48.3%  
State..... 24.9%  
Outside State..... 26.8%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 6.2 Days  
State..... 8.2 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 90  
Occupancy Rate..... 32.0 %  
Ownership/Control..... Private, For Profit  
Medicare Discharges..... 42.2 %  
Case Mix Index (CMI)..... 1.0903

### STAFFING:

Total Number of Physicians..... (Not Available)  
Percent of Physicians Board  
Certified Specialists..... (Not Available)  
Medical Residents/Interns..... (Not Available)  
Registered Nurses..... (Not Available)  
Licensed Practical Nurses..... (Not Available)

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# HUMANA HOSPITAL SOUTHWEST

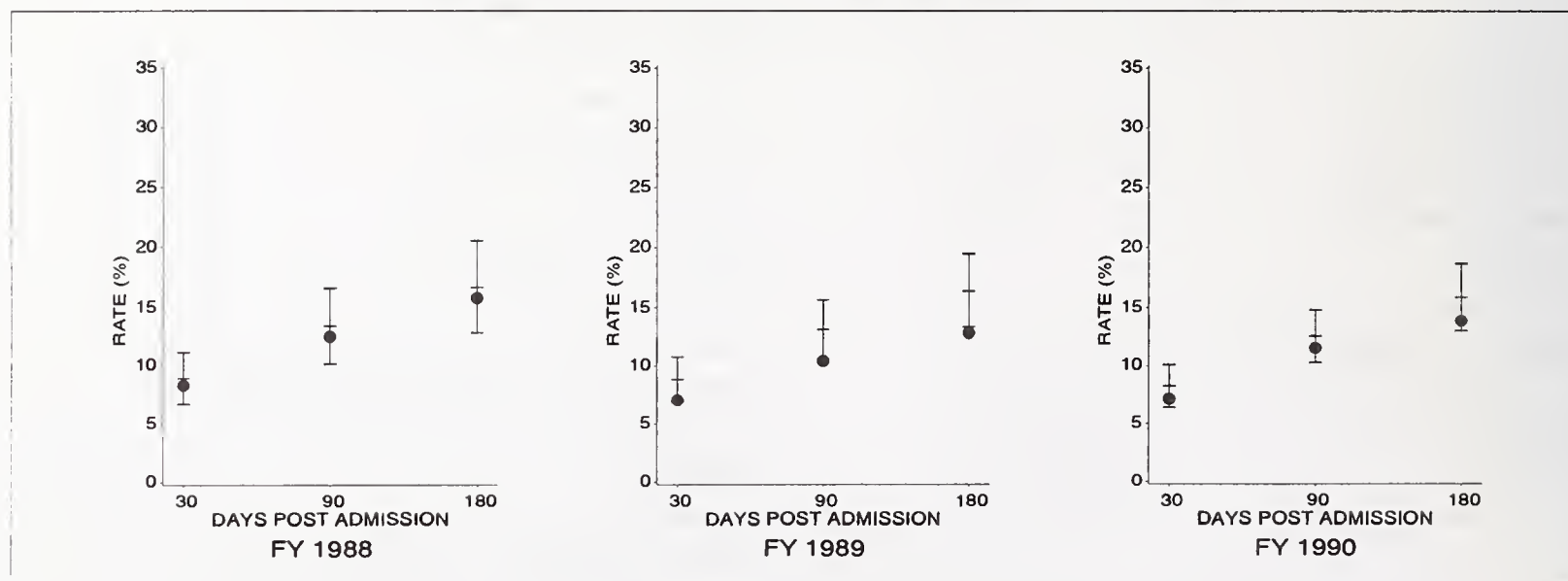
9820 THIRD ST RD  
LOUISVILLE, KY 40272  
Medicare Provider Number: 180133

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1340            | 7.1                 | 8.2  | 0.9   | 11.5    | 12.5 | 1.1   | 13.8     | 15.8 | 1.4   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 37              | 35.1                | 23.6 | ----- | 40.5    | 26.5 | ----- | 43.2     | 29.0 | ----- |
| Congestive Heart Failure.....              | 62              | 6.5                 | 12.2 | 5.7   | 19.4    | 19.4 | 5.9   | 21.0     | 25.3 | 6.2   |
| Pneumonia/Influenza.....                   | 66              | 12.1                | 15.0 | 7.1   | 13.6    | 20.6 | 9.4   | 19.7     | 24.4 | 10.7  |
| Chronic Obstructive Pulmonary Disease..... | 36              | 2.8                 | 6.7  | ----- | 8.3     | 12.0 | ----- | 13.9     | 16.2 | ----- |
| Transient Cerebral Ischemia.....           | 29              | 0.0                 | 1.3  | ----- | 0.0     | 3.0  | ----- | 0.0      | 4.9  | ----- |
| Stroke.....                                | 28              | 17.9                | 19.2 | ----- | 17.9    | 25.2 | ----- | 17.9     | 28.8 | ----- |
| Hip Fracture.....                          | 22              | 0.0                 | 6.7  | ----- | 0.0     | 11.3 | ----- | 4.5      | 14.9 | ----- |
| Sepsis.....                                | 14              | 42.9                | 26.9 | ----- | 42.9    | 34.8 | ----- | 42.9     | 39.6 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 18              | 5.6                 | 2.1  | ----- | 5.6     | 4.2  | ----- | 5.6      | 6.4  | ----- |
| Carotid Endarterectomy.....                | 2               | 0.0                 | 1.7  | ----- | 50.0    | 3.3  | ----- | 50.0     | 5.1  | ----- |
| Hip Replacement/Reconstruction.....        | 9               | 0.0                 | 3.5  | ----- | 0.0     | 6.4  | ----- | 11.1     | 8.6  | ----- |
| Open Reduction of Hip Fracture.....        | 17              | 0.0                 | 6.0  | ----- | 0.0     | 10.6 | ----- | 0.0      | 14.3 | ----- |
| Prostatectomy.....                         | 12              | 0.0                 | 1.3  | ----- | 8.3     | 3.1  | ----- | 16.7     | 5.3  | ----- |
| Cholecystectomy.....                       | 27              | 3.7                 | 3.9  | ----- | 14.8    | 7.4  | ----- | 18.5     | 9.9  | ----- |
| Hysterectomy.....                          | 8               | 0.0                 | 0.1  | ----- | 0.0     | 0.2  | ----- | 0.0      | 0.3  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (\*) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HUMANA HOSPITAL SOUTHWEST

Medicare Provider Number: 180133

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 72.3 years  
Proportion female..... 59.4 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 38.4 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 12.2 %  
Admitted for emergency..... 61.4 %

### COMORBIDITIES:

Cancer..... 5.7 %  
Chronic cardiovascular disease..... 45.8 %  
Chronic liver disease..... 1.0 %  
Chronic renal disease..... 2.9 %  
Chronic pulmonary disease..... 27.5 %  
Cerebrovascular degeneration..... 4.0 %  
Diabetes mellitus..... 6.8 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 87.3%  
State ..... 10.7%  
Outside State ..... 2.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 9.0 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 150  
Occupancy Rate ..... 58.0 %  
Ownership/Control..... Private, For Profit  
Medicare Discharges ..... 45.0 %  
Case Mix Index (CMI) ..... 1.2012

### STAFFING:

Total Number of Physicians..... (Not Available)  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 109  
Licensed Practical Nurses ..... 30

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



# HUMANA HOSPITAL SUBURBAN

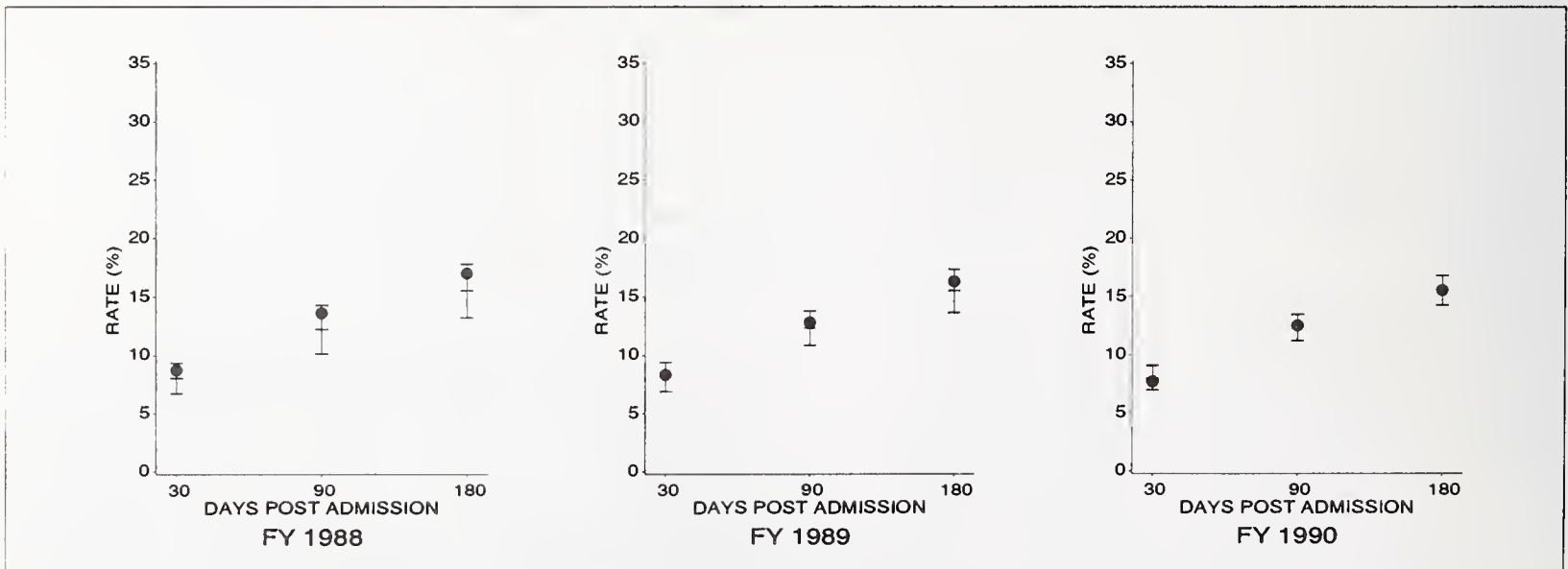
4001 DUTCHMANS LANE  
LOUISVILLE, KY 40207  
Medicare Provider Number: 180123

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|-----------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                 | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                 | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 3669            | 7.7                 | 8.0  | 0.5  | 12.5    | 12.3 | 0.6  | 15.5     | 15.5 | 0.6  |
| CONDITIONS:                                |                 |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 100             | 27.0                | 23.0 | 6.7  | 31.0    | 25.8 | 5.9  | 32.0     | 28.4 | 5.4  |
| Congestive Heart Failure.....              | 163             | 8.6                 | 13.1 | 3.7  | 13.5    | 20.6 | 4.9  | 17.2     | 26.3 | 5.5  |
| Pneumonia/Influenza.....                   | 209             | 9.1                 | 14.4 | 3.4  | 14.8    | 19.8 | 3.6  | 18.2     | 23.5 | 3.8  |
| Chronic Obstructive Pulmonary Disease..... | 58              | 6.9                 | 6.6  | 3.6  | 13.8    | 11.7 | 6.4  | 19.0     | 15.4 | 8.4  |
| Transient Cerebral Ischemia.....           | 66              | 0.0                 | 1.9  | 2.6  | 3.0     | 4.2  | 2.7  | 6.1      | 6.7  | 3.7  |
| Stroke.....                                | 118             | 21.2                | 18.7 | 4.3  | 27.1    | 24.2 | 6.7  | 28.8     | 27.5 | 7.9  |
| Hip Fracture.....                          | 93              | 7.5                 | 7.1  | 2.7  | 10.8    | 12.4 | 3.9  | 12.9     | 16.0 | 4.6  |
| Sepsis.....                                | 38              | 28.9                | 24.4 | ---- | 34.2    | 31.8 | ---- | 39.5     | 36.2 | ---- |
| PROCEDURES:                                |                 |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0               |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 33              | 9.1                 | 3.4  | ---- | 12.1    | 6.3  | ---- | 12.1     | 8.9  | ---- |
| Carotid Endarterectomy.....                | 22              | 0.0                 | 1.3  | ---- | 9.1     | 2.6  | ---- | 9.1      | 4.0  | ---- |
| Hip Replacement/Reconstruction.....        | 105             | 2.9                 | 2.5  | 1.7  | 3.8     | 4.6  | 2.2  | 3.8      | 6.1  | 3.1  |
| Open Reduction of Hip Fracture.....        | 54              | 11.1                | 6.9  | 5.2  | 13.0    | 12.4 | 4.5  | 14.8     | 16.2 | 5.4  |
| Prostatectomy.....                         | 123             | 0.8                 | 1.0  | 0.9  | 1.6     | 2.4  | 1.5  | 2.4      | 4.1  | 2.0  |
| Cholecystectomy.....                       | 72              | 4.2                 | 1.7  | 2.2  | 4.2     | 3.2  | 2.2  | 4.2      | 4.2  | 2.6  |
| Hysterectomy.....                          | 35              | 0.0                 | 0.9  | ---- | 2.9     | 1.9  | ---- | 2.9      | 2.9  | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (\*) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



## HUMANA HOSPITAL SUBURBAN

Medicare Provider Number: 180123

### FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

#### DEMOGRAPHICS:

Average age at admission..... 74.5 years  
Proportion female..... 57.9 %

#### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 55.9 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 53.0 %  
Admitted for emergency..... 34.8 %

#### COMORBIDITIES:

Cancer..... 7.5 %  
Chronic cardiovascular disease..... 39.3 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 2.5 %  
Chronic pulmonary disease..... 16.3 %  
Cerebrovascular degeneration..... 2.9 %  
Diabetes mellitus..... 7.2 %

### ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

#### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 78.4%  
State..... 17.0%  
Outside State..... 4.6%  
Total..... 100.0%

#### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 8.2 Days  
State..... 8.2 Days  
National..... 8.6 Days

### HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

#### PROFILE:

Total Beds..... 376  
Occupancy Rate..... 55.0 %  
Ownership/Control..... Private, For Profit  
Medicare Discharges..... 42.6 %  
Case Mix Index (CMI)..... 1.3447

#### STAFFING:

Total Number of Physicians..... 265  
Percent of Physicians Board  
Certified Specialists..... 88.3 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 373  
Licensed Practical Nurses..... 51

#### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... Yes  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

#### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# HUMANA HOSPITAL UNIVERSITY OF LOUISVILLE

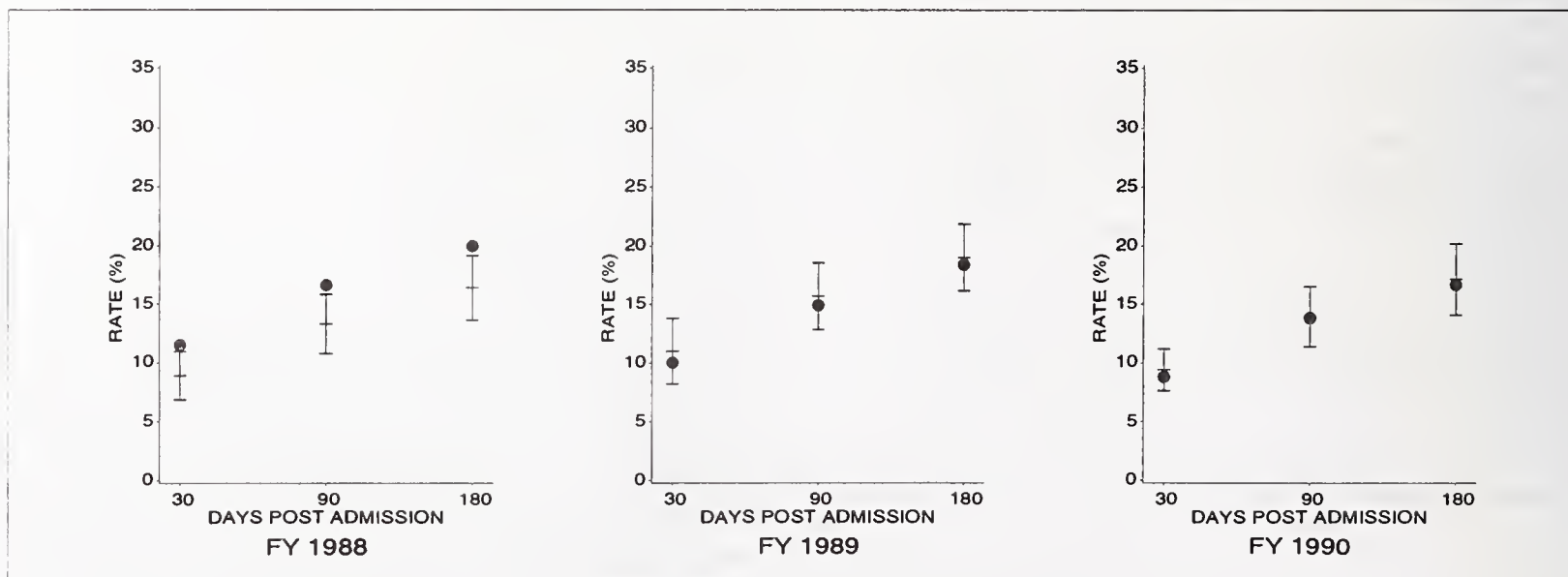
530 S JACKSON ST  
LOUISVILLE, KY 40202  
Medicare Provider Number: 180137

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1615               | 8.8                 | 9.4  | 0.9   | 13.8    | 13.9 | 1.3   | 16.6     | 17.1 | 1.5   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 29                 | 20.7                | 20.0 | ----- | 27.6    | 22.1 | ----- | 27.6     | 24.3 | ----- |
| Congestive Heart Failure.....              | 48                 | 4.2                 | 12.0 | ----- | 8.3     | 19.2 | ----- | 12.5     | 24.4 | ----- |
| Pneumonia/Influenza.....                   | 16                 | 0.0                 | 9.1  | ----- | 0.0     | 12.8 | ----- | 18.8     | 15.0 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 18                 | 11.1                | 9.1  | ----- | 11.1    | 15.5 | ----- | 11.1     | 20.2 | ----- |
| Transient Cerebral Ischemia.....           | 8                  | 0.0                 | 2.5  | ----- | 12.5    | 5.4  | ----- | 12.5     | 8.2  | ----- |
| Stroke.....                                | 36                 | 19.4                | 16.6 | ----- | 25.0    | 21.3 | ----- | 27.8     | 24.5 | ----- |
| Hip Fracture.....                          | 21                 | 9.5                 | 8.0  | ----- | 23.8    | 13.4 | ----- | 23.8     | 17.0 | ----- |
| Sepsis.....                                | 35                 | 31.4                | 21.8 | ----- | 34.3    | 28.0 | ----- | 37.1     | 31.8 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 41                 | 2.4                 | 2.8  | ----- | 7.3     | 3.5  | ----- | 7.3      | 4.2  | ----- |
| Coronary Artery Bypass Graft.....          | 37                 | 8.1                 | 8.0  | ----- | 8.1     | 11.8 | ----- | 8.1      | 13.5 | ----- |
| Initial Pacemaker Insertion.....           | 11                 | 0.0                 | 4.5  | ----- | 0.0     | 9.4  | ----- | 9.1      | 13.5 | ----- |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 12                 | 8.3                 | 6.8  | ----- | 25.0    | 11.5 | ----- | 25.0     | 14.6 | ----- |
| Open Reduction of Hip Fracture.....        | 8                  | 12.5                | 6.0  | ----- | 25.0    | 11.1 | ----- | 25.0     | 14.8 | ----- |
| Prostatectomy.....                         | 15                 | 0.0                 | 1.0  | ----- | 0.0     | 2.3  | ----- | 0.0      | 4.0  | ----- |
| Cholecystectomy.....                       | 13                 | 7.7                 | 5.7  | ----- | 23.1    | 10.5 | ----- | 23.1     | 13.1 | ----- |
| Hysterectomy.....                          | 11                 | 0.0                 | 2.9  | ----- | 0.0     | 4.6  | ----- | 0.0      | 5.4  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# HUMANA HOSPITAL UNIVERSITY OF LOUISVILLE

Medicare Provider Number: 180137

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 64.6 years  
Proportion female..... 49.9 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 13.9 %  
Transferred from skilled nursing facility..... 0.1 %  
Admitted for elective procedure..... 15.4 %  
Admitted for emergency..... 81.2 %

### COMORBIDITIES:

Cancer..... 7.5 %  
Chronic cardiovascular disease..... 32.7 %  
Chronic liver disease..... 1.7 %  
Chronic renal disease..... 5.2 %  
Chronic pulmonary disease..... 17.6 %  
Cerebrovascular degeneration..... 8.4 %  
Diabetes mellitus..... 12.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 76.5%  
State..... 14.5%  
Outside State..... 9.0%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 9.0 Days  
State..... 8.2 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 404  
Occupancy Rate..... 65.0 %  
Ownership/Control..... Private, For Profit  
Medicare Discharges..... 16.3 %  
Case Mix Index (CMI)..... 1.7286

### STAFFING:

Total Number of Physicians..... (Not Available)  
Percent of Physicians Board  
Certified Specialists.....(Not Available)  
Medical Residents/Interns..... (Not Available)  
Registered Nurses..... (Not Available)  
Licensed Practical Nurses..... (Not Available)

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... Yes  
Comprehensive Geriatric..... Yes  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... Yes  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... Yes  
Medicare Swing Beds..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# JAMES B HAGGIN MEMORIAL HOSPITAL

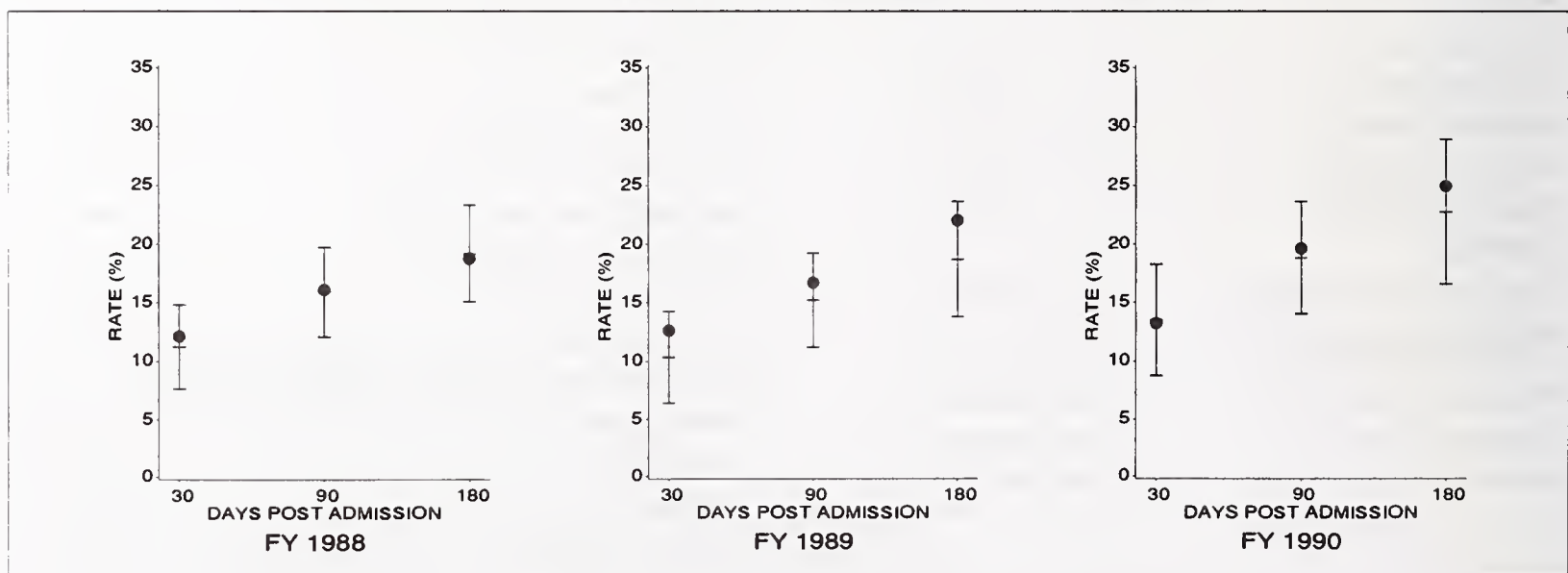
464 LINDEN AV  
HARRODSBURG, KY 40330  
Medicare Provider Number: 180030

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 281             | 13.2                | 13.5 | 2.4   | 19.6    | 18.8 | 2.4   | 24.9     | 22.7 | 3.1   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 14              | 28.6                | 23.7 | ----- | 35.7    | 26.1 | ----- | 35.7     | 28.7 | ----- |
| Congestive Heart Failure.....              | 20              | 15.0                | 13.4 | ----- | 25.0    | 21.5 | ----- | 30.0     | 27.1 | ----- |
| Pneumonia/Influenza.....                   | 40              | 22.5                | 17.7 | ----- | 30.0    | 24.6 | ----- | 32.5     | 28.8 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 16              | 0.0                 | 4.0  | ----- | 0.0     | 7.6  | ----- | 18.8     | 10.5 | ----- |
| Transient Cerebral Ischemia.....           | 1               | 0.0                 | 1.6  | ----- | 0.0     | 3.1  | ----- | 0.0      | 4.3  | ----- |
| Stroke.....                                | 9               | 11.1                | 19.9 | ----- | 11.1    | 24.5 | ----- | 33.3     | 28.1 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 4               | 25.0                | 32.3 | ----- | 50.0    | 38.0 | ----- | 50.0     | 42.1 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 10              | 0.0                 | 2.1  | ----- | 0.0     | 4.6  | ----- | 0.0      | 7.2  | ----- |
| Cholecystectomy.....                       | 11              | 0.0                 | 2.6  | ----- | 0.0     | 4.8  | ----- | 0.0      | 6.2  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# JAMES B HAGGIN MEMORIAL HOSPITAL

Medicare Provider Number: 180030

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.3 years  
Proportion female..... 59.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 38.1 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 11.4 %  
Admitted for emergency..... 82.6 %

### COMORBIDITIES:

Cancer..... 7.8 %  
Chronic cardiovascular disease..... 34.2 %  
Chronic liver disease..... 1.8 %  
Chronic renal disease..... 5.3 %  
Chronic pulmonary disease..... 18.1 %  
Cerebrovascular degeneration..... 3.2 %  
Diabetes mellitus..... 7.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 85.8%  
State..... 13.0%  
Outside State..... 1.2%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 7.0 Days  
State..... 8.2 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 80  
Occupancy Rate..... 18.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges..... 39.2 %  
Case Mix Index (CMI)..... 1.1209

### STAFFING:

Total Number of Physicians..... 19  
Percent of Physicians Board  
Certified Specialists..... 52.6 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 25  
Licensed Practical Nurses..... 14

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# JANE TODD CRAWFORD MEMORIAL HOSPITAL

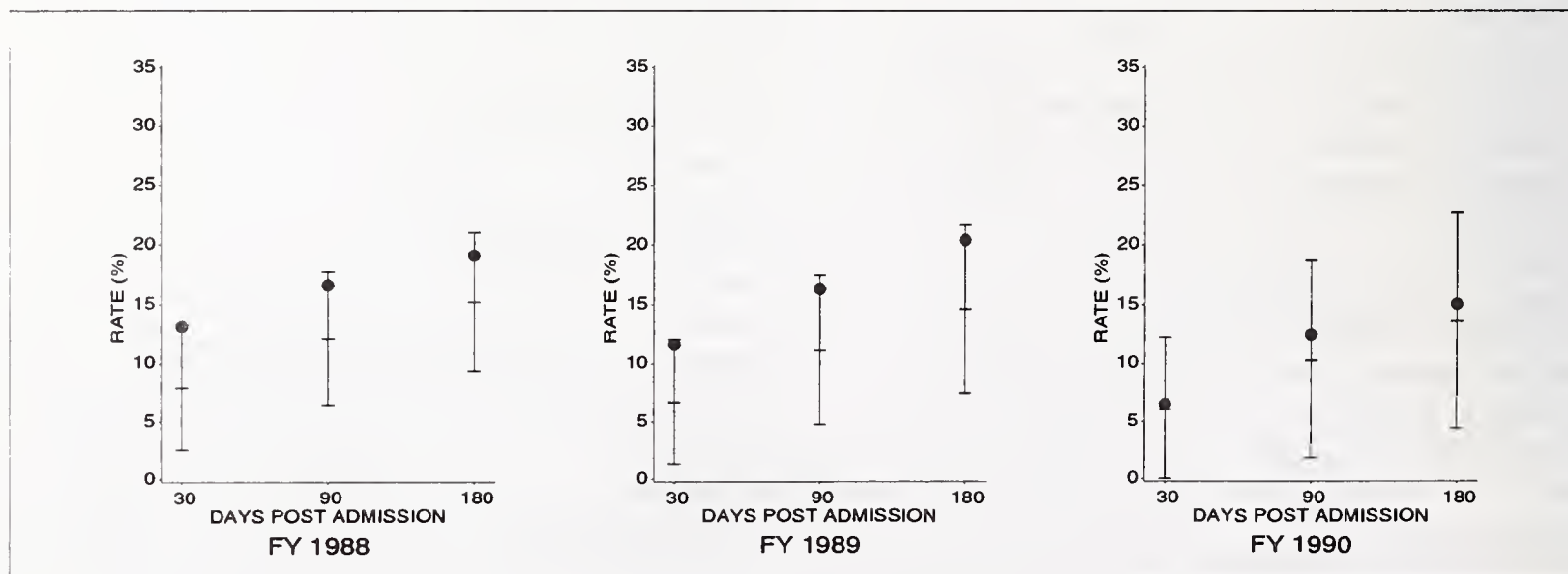
202 MILBY ST  
GREENSBURG, KY 42743  
Medicare Provider Number: 180047

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 153             | 6.5                 | 6.0  | 3.1   | 12.4    | 10.2 | 4.2   | 15.0     | 13.5 | 4.6   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Congestive Heart Failure.....              | 5               | 0.0                 | 13.6 | ----- | 20.0    | 22.1 | ----- | 20.0     | 28.1 | ----- |
| Pneumonia/Influenza.....                   | 13              | 23.1                | 12.3 | ----- | 30.8    | 17.0 | ----- | 30.8     | 20.9 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 2               | 0.0                 | 4.3  | ----- | 0.0     | 8.2  | ----- | 0.0      | 11.6 | ----- |
| Transient Cerebral Ischemia.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Stroke.....                                | 2               | 0.0                 | 10.7 | ----- | 0.0     | 14.8 | ----- | 0.0      | 17.2 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 0               |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 2               | 0.0                 | 0.3  | ----- | 0.0     | 0.6  | ----- | 0.0      | 0.9  | ----- |
| Cholecystectomy.....                       | 3               | 0.0                 | 0.6  | ----- | 0.0     | 1.2  | ----- | 0.0      | 1.7  | ----- |
| Hysterectomy.....                          | 2               | 0.0                 | 0.2  | ----- | 0.0     | 0.5  | ----- | 0.0      | 0.7  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# JANE TODD CRAWFORD MEMORIAL HOSPITAL

Medicare Provider Number: 180047

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 74.1 years  
Proportion female..... 60.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 56.2 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 73.9 %  
Admitted for emergency..... 8.5 %

### COMORBIDITIES:

Cancer..... 5.9 %  
Chronic cardiovascular disease..... 22.9 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 1.3 %  
Chronic pulmonary disease..... 7.2 %  
Cerebrovascular degeneration..... 5.2 %  
Diabetes mellitus..... 2.6 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 82.3%  
State ..... 16.9%  
Outside State ..... 0.8%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.6 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 64  
Occupancy Rate ..... 56.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 24.9 %  
Case Mix Index (CMI) ..... 0.9791

### STAFFING:

Total Number of Physicians..... 15  
Percent of Physicians Board  
Certified Specialists..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 18  
Licensed Practical Nurses ..... 12

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# JENKINS COMMUNITY HOSPITAL

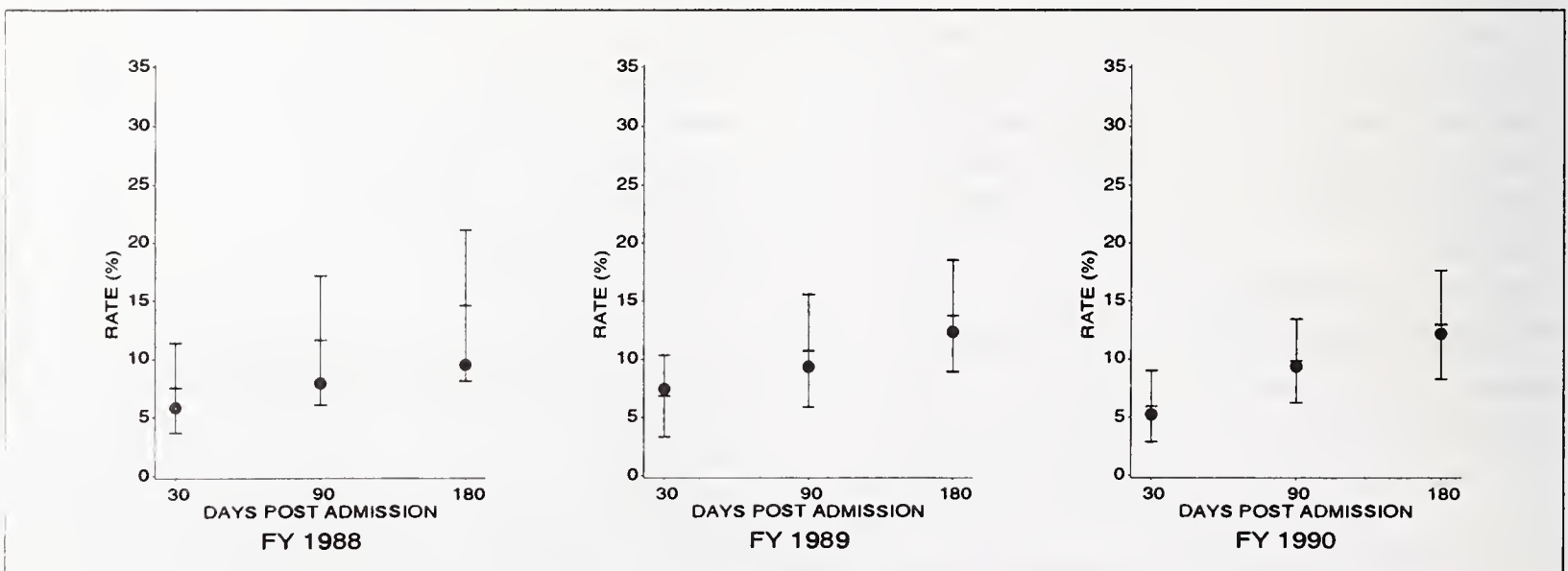
MAIN ST, BOX 472  
JENKINS, KY 41537  
Medicare Provider Number: 180006

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 290                | 5.2                 | 5.9  | 1.5   | 9.3     | 9.8  | 1.8   | 12.1     | 12.9 | 2.4   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 3                  | 33.3                | 42.2 | ----- | 33.3    | 47.2 | ----- | 66.7     | 49.4 | ----- |
| Congestive Heart Failure.....              | 9                  | 0.0                 | 14.4 | ----- | 11.1    | 22.1 | ----- | 11.1     | 27.5 | ----- |
| Pneumonia/Influenza.....                   | 10                 | 10.0                | 11.3 | ----- | 10.0    | 15.3 | ----- | 10.0     | 18.2 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 31                 | 0.0                 | 3.8  | ----- | 0.0     | 7.3  | ----- | 6.5      | 10.7 | ----- |
| Transient Cerebral Ischemia.....           | 3                  | 0.0                 | 1.1  | ----- | 33.3    | 2.5  | ----- | 33.3     | 3.9  | ----- |
| Stroke.....                                | 3                  | 33.3                | 21.8 | ----- | 33.3    | 27.7 | ----- | 33.3     | 31.7 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 1                  | 0.0                 | 16.0 | ----- | 0.0     | 19.3 | ----- | 0.0      | 22.8 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 1                  | 0.0                 | 2.9  | ----- | 0.0     | 5.1  | ----- | 0.0      | 6.0  | ----- |
| Hysterectomy.....                          | 0                  |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# JENKINS COMMUNITY HOSPITAL

Medicare Provider Number: 180006

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 69.1 years  
Proportion female..... 53.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 43.8 %  
Transferred from skilled nursing facility..... 0.3 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 6.2 %

### COMORBIDITIES:

Cancer..... 2.1 %  
Chronic cardiovascular disease..... 39.3 %  
Chronic liver disease..... 2.1 %  
Chronic renal disease..... 2.4 %  
Chronic pulmonary disease..... 37.2 %  
Cerebrovascular degeneration..... 4.1 %  
Diabetes mellitus..... 7.9 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 57.9%  
State ..... 38.1%  
Outside State ..... 4.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.5 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 60  
Occupancy Rate ..... 31.0 %  
Ownership/Control..... Private, For Profit  
Medicare Discharges ..... 41.8 %  
Case Mix Index (CMI) ..... 0.8757

### STAFFING:

Total Number of Physicians..... 7  
Percent of Physicians Board  
Certified Specialists ..... 42.9 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 21  
Licensed Practical Nurses ..... 14

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# JENNIE STUART MEDICAL CENTER INC

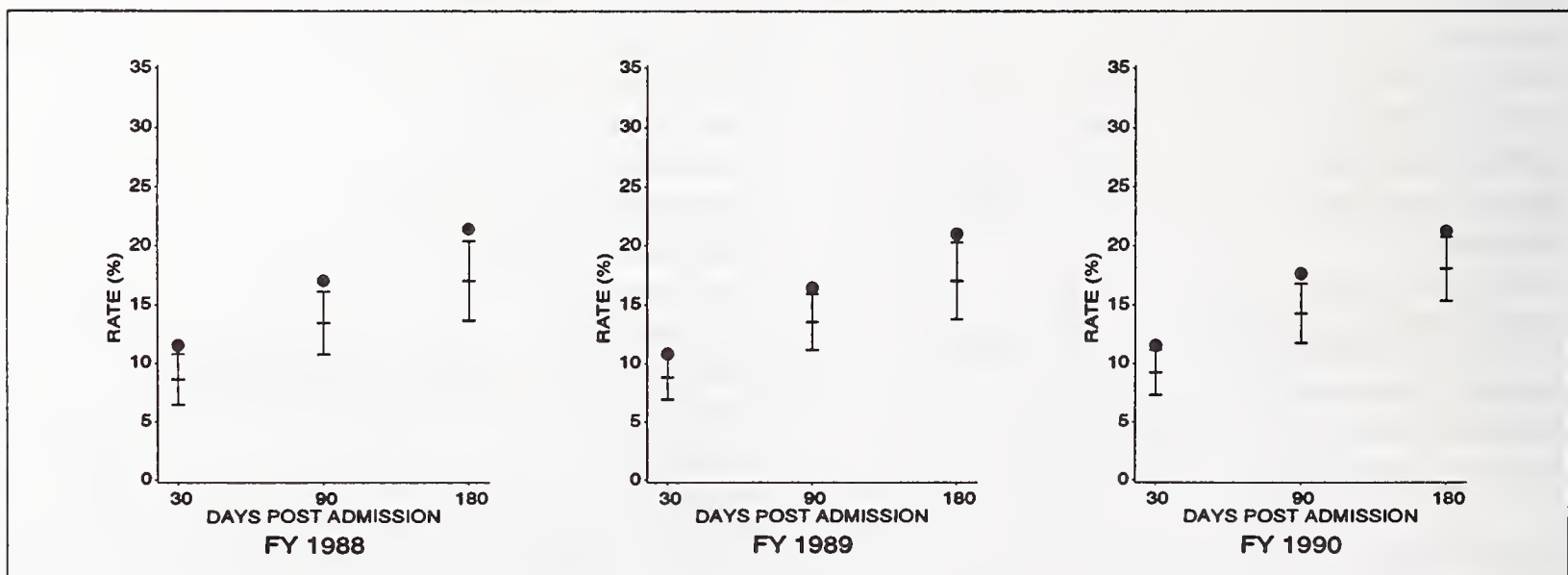
320 W 18TH ST  
HOPKINSVILLE, KY 42240  
Medicare Provider Number: 180051

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1489            | 11.5                | 9.2  | 1.0   | 17.6    | 14.2 | 1.3   | 21.2     | 18.0 | 1.4   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 47              | 31.9                | 25.0 | ----- | 36.2    | 28.1 | ----- | 38.3     | 31.3 | ----- |
| Congestive Heart Failure.....              | 70              | 17.1                | 14.6 | 7.6   | 27.1    | 23.6 | 8.2   | 32.9     | 29.7 | 8.3   |
| Pneumonia/Influenza.....                   | 119             | 16.0                | 15.7 | 3.6   | 24.4    | 21.9 | 7.9   | 30.3     | 25.9 | 8.2   |
| Chronic Obstructive Pulmonary Disease..... | 32              | 12.5                | 5.7  | ----- | 15.6    | 11.1 | ----- | 21.9     | 15.6 | ----- |
| Transient Cerebral Ischemia.....           | 19              | 0.0                 | 1.3  | ----- | 5.3     | 3.0  | ----- | 5.3      | 5.1  | ----- |
| Stroke.....                                | 53              | 17.0                | 18.3 | 5.8   | 32.1    | 24.2 | 7.1   | 32.1     | 28.1 | 6.9   |
| Hip Fracture.....                          | 33              | 12.1                | 7.0  | ----- | 15.2    | 12.6 | ----- | 24.2     | 16.1 | ----- |
| Sepsis.....                                | 12              | 16.7                | 34.6 | ----- | 66.7    | 45.3 | ----- | 66.7     | 51.4 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 14              | 7.1                 | 2.1  | ----- | 7.1     | 4.4  | ----- | 7.1      | 6.4  | ----- |
| Carotid Endarterectomy.....                | 9               | 0.0                 | 1.6  | ----- | 11.1    | 2.8  | ----- | 11.1     | 4.1  | ----- |
| Hip Replacement/Reconstruction.....        | 14              | 14.3                | 5.3  | ----- | 21.4    | 10.7 | ----- | 35.7     | 14.7 | ----- |
| Open Reduction of Hip Fracture.....        | 18              | 11.1                | 7.3  | ----- | 11.1    | 13.6 | ----- | 22.2     | 17.6 | ----- |
| Prostatectomy.....                         | 85              | 0.0                 | 1.2  | 1.8   | 2.4     | 2.8  | 2.0   | 2.4      | 4.7  | 3.8   |
| Cholecystectomy.....                       | 52              | 11.5                | 4.2  | 4.1   | 17.3    | 8.2  | 5.6   | 21.2     | 11.2 | 6.4   |
| Hysterectomy.....                          | 27              | 0.0                 | 0.1  | ----- | 0.0     | 0.4  | ----- | 0.0      | 0.6  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# JENNIE STUART MEDICAL CENTER INC

Medicare Provider Number: 180051

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.2 years  
Proportion female..... 55.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 56.3 %  
Transferred from skilled nursing facility..... 0.1 %  
Admitted for elective procedure..... 13.9 %  
Admitted for emergency..... 5.0 %

### COMORBIDITIES:

Cancer..... 9.9 %  
Chronic cardiovascular disease..... 33.4 %  
Chronic liver disease..... 1.0 %  
Chronic renal disease..... 3.0 %  
Chronic pulmonary disease..... 12.4 %  
Cerebrovascular degeneration..... 7.3 %  
Diabetes mellitus..... 6.3 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 68.4%  
State ..... 28.8%  
Outside State ..... 2.8%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 7.6 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 194  
Occupancy Rate ..... 44.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 40.2 %  
Case Mix Index (CMI) ..... 1.1924

### STAFFING:

Total Number of Physicians..... 55  
Percent of Physicians Board  
Certified Specialists..... 23.6 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 97  
Licensed Practical Nurses ..... 74

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



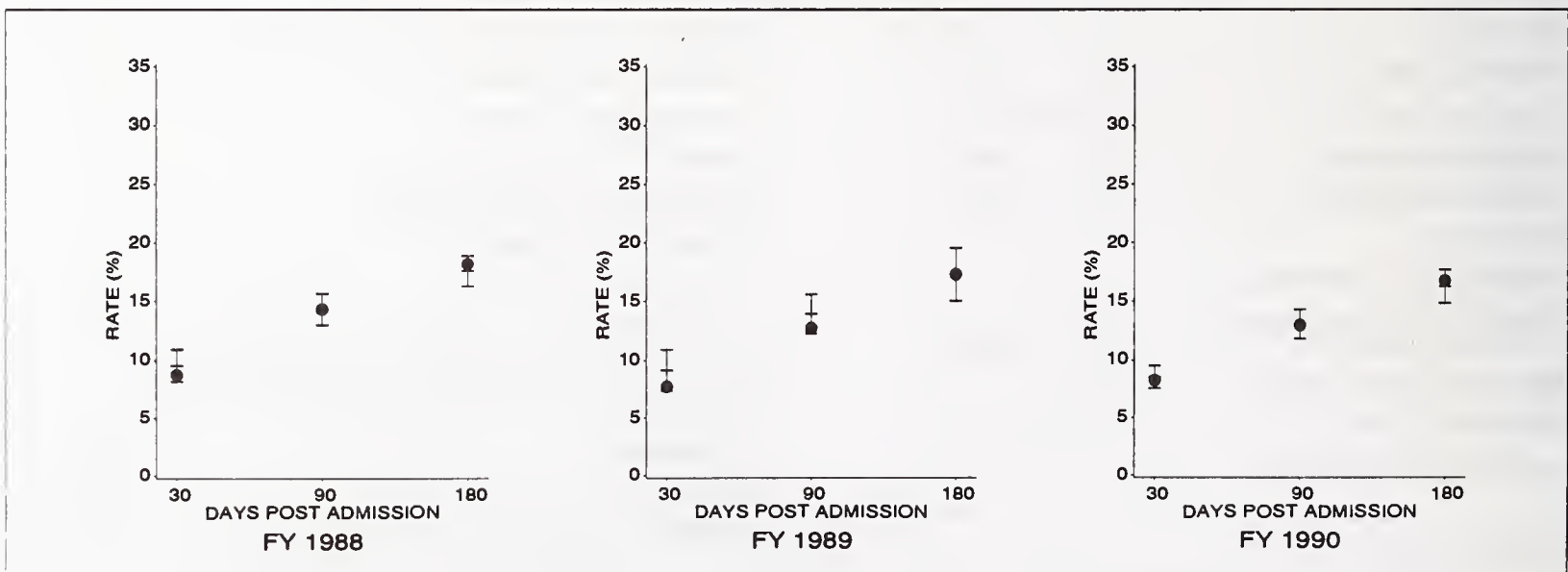
**JEWISH HOSPITAL**  
 217 E CHESTNUT ST  
 LOUISVILLE, KY 40202  
 Medicare Provider Number: 180040

**FY 1990 MEDICARE HOSPITAL MORTALITY RATES**

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 3680            | 8.2                 | 8.5  | 0.5   | 12.9    | 13.0 | 0.6   | 16.7     | 16.2 | 0.7   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 62              | 30.6                | 25.2 | 8.2   | 32.3    | 27.5 | 7.5   | 32.3     | 29.8 | 6.8   |
| Congestive Heart Failure.....              | 169             | 13.0                | 12.1 | 2.8   | 23.1    | 19.6 | 4.5   | 30.2     | 25.1 | 5.6   |
| Pneumonia/Influenza.....                   | 138             | 12.3                | 17.3 | 5.1   | 18.8    | 23.6 | 4.3   | 24.6     | 27.6 | 4.2   |
| Chronic Obstructive Pulmonary Disease..... | 43              | 9.3                 | 8.8  | ----- | 14.0    | 15.0 | ----- | 18.6     | 19.8 | ----- |
| Transient Cerebral Ischemia.....           | 50              | 2.0                 | 1.9  | ----- | 2.0     | 4.2  | ----- | 4.0      | 6.9  | ----- |
| Stroke.....                                | 111             | 20.7                | 19.8 | 4.1   | 32.4    | 26.0 | 4.9   | 35.1     | 29.7 | 4.9   |
| Hip Fracture.....                          | 55              | 7.3                 | 6.3  | 3.8   | 10.9    | 11.6 | 4.9   | 12.7     | 15.2 | 6.0   |
| Sepsis.....                                | 53              | 18.9                | 24.7 | 6.8   | 32.1    | 33.0 | 7.4   | 41.5     | 37.5 | 7.6   |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 199             | 0.5                 | 1.5  | 1.3   | 0.5     | 2.2  | 1.6   | 1.5      | 2.8  | 1.8   |
| Coronary Artery Bypass Graft.....          | 271             | 5.2                 | 5.3  | 1.6   | 5.9     | 7.6  | 1.8   | 9.2      | 8.7  | 2.1   |
| Initial Pacemaker Insertion.....           | 67              | 1.5                 | 2.8  | 2.3   | 4.5     | 5.6  | 3.2   | 4.5      | 8.1  | 6.8   |
| Carotid Endarterectomy.....                | 14              | 0.0                 | 1.1  | ----- | 0.0     | 2.3  | ----- | 0.0      | 3.6  | ----- |
| Hip Replacement/Reconstruction.....        | 40              | 0.0                 | 3.1  | ----- | 0.0     | 5.7  | ----- | 2.5      | 7.5  | ----- |
| Open Reduction of Hip Fracture.....        | 30              | 3.3                 | 6.1  | ----- | 6.7     | 11.4 | ----- | 10.0     | 15.2 | ----- |
| Prostatectomy.....                         | 62              | 0.0                 | 0.9  | 1.5   | 1.6     | 2.0  | 1.8   | 3.2      | 3.4  | 2.3   |
| Cholecystectomy.....                       | 48              | 4.2                 | 2.3  | ----- | 6.3     | 4.2  | ----- | 10.4     | 5.8  | ----- |
| Hysterectomy.....                          | 13              | 7.7                 | 0.3  | ----- | 7.7     | 0.7  | ----- | 7.7      | 1.2  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

**OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD)  
 FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES**



**JEWISH HOSPITAL**  
Medicare Provider Number: 180040

**FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES**

**DEMOGRAPHICS:**

Average age at admission..... 70.1 years  
Proportion female..... 53.2 %

**ADMISSION SOURCES/TYPES:**

Referred by personal or HMO physician..... 34.4 %  
Transferred from skilled nursing facility..... 0.3 %  
Admitted for elective procedure..... 34.0 %  
Admitted for emergency..... 63.5 %

**COMORBIDITIES:**

Cancer..... 5.8 %  
Chronic cardiovascular disease..... 41.1 %  
Chronic liver disease..... 0.9 %  
Chronic renal disease..... 7.7 %  
Chronic pulmonary disease..... 16.0 %  
Cerebrovascular degeneration..... 3.0 %  
Diabetes mellitus..... 11.1 %

**ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\***

**ORIGIN OF MEDICARE PATIENT ADMISSION:**

County/City..... 60.3%  
State ..... 23.0%  
Outside State ..... 16.7%  
Total ..... 100.0%

**MEDICARE AVERAGE LENGTH OF STAY:**

Hospital ..... 10.0 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

**HOSPITAL CHARACTERISTICS\***

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

**PROFILE:**

Total Beds ..... 457  
Occupancy Rate ..... 66.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 45.6 %  
Case Mix Index (CMI) ..... 1.8027

**STAFFING:**

Total Number of Physicians..... 218  
Percent of Physicians Board  
Certified Specialists..... 76.6 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 530  
Licensed Practical Nurses ..... 23

**SPECIALTY SERVICES:**

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... Yes  
Other Intensive Care ..... No  
Trauma Center ..... Yes

**OTHER SPECIALTY/HOSPITAL-BASED SERVICES:**

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# KENTUCKY RIVER MEDICAL CENTER

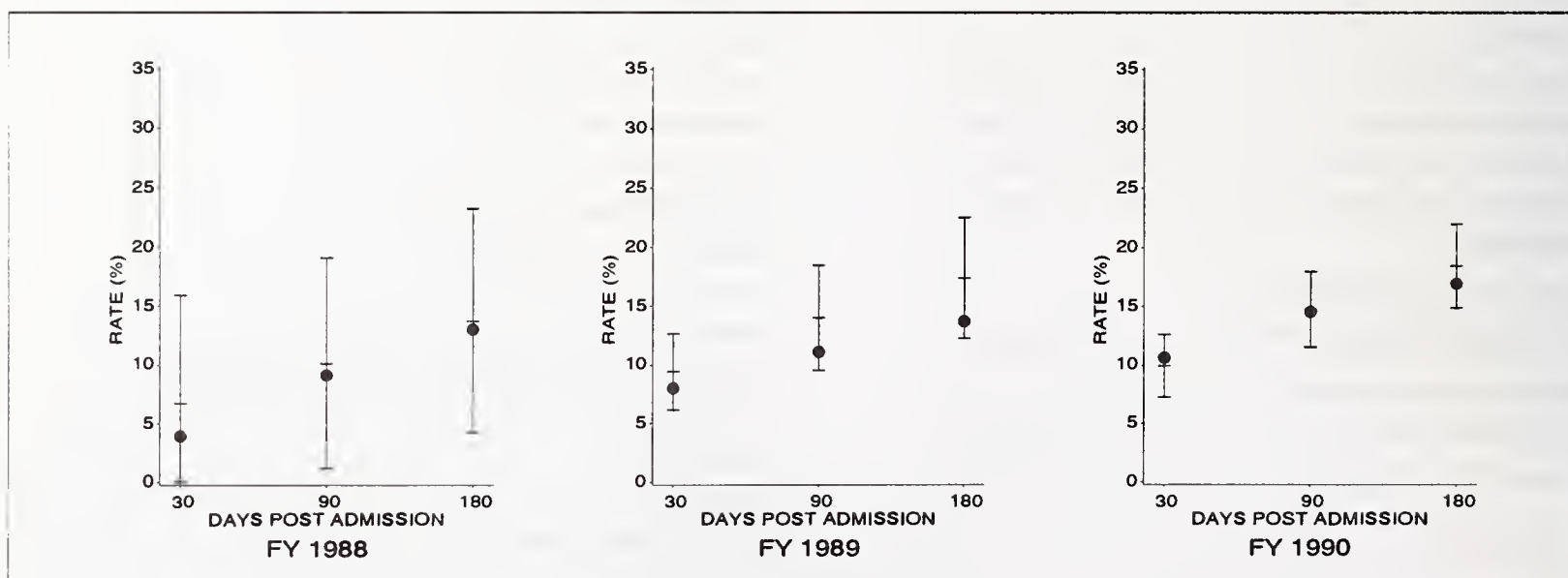
JETT DRIVE, BOX 1170  
JACKSON, KY 41339  
Medicare Provider Number: 180139

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 557                | 10.6                | 9.9  | 1.3   | 14.5    | 14.7 | 1.6   | 16.9     | 18.4 | 1.8   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 23                 | 30.4                | 20.8 | ----- | 30.4    | 25.6 | ----- | 34.8     | 29.1 | ----- |
| Congestive Heart Failure.....              | 38                 | 10.5                | 13.2 | ----- | 15.8    | 21.3 | ----- | 18.4     | 27.4 | ----- |
| Pneumonia/Influenza.....                   | 55                 | 14.5                | 14.0 | 5.1   | 20.0    | 19.4 | 5.4   | 23.6     | 23.1 | 6.8   |
| Chronic Obstructive Pulmonary Disease..... | 24                 | 4.2                 | 6.6  | ----- | 8.3     | 11.5 | ----- | 12.5     | 15.5 | ----- |
| Transient Cerebral Ischemia.....           | 15                 | 0.0                 | 1.4  | ----- | 0.0     | 3.3  | ----- | 0.0      | 5.4  | ----- |
| Stroke.....                                | 20                 | 15.0                | 19.5 | ----- | 20.0    | 25.8 | ----- | 20.0     | 29.4 | ----- |
| Hip Fracture.....                          | 1                  | 0.0                 | 8.5  | ----- | 0.0     | 17.1 | ----- | 0.0      | 24.7 | ----- |
| Sepsis.....                                | 1                  | 100.0               | 56.0 | ----- | 100.0   | 73.8 | ----- | 100.0    | 81.6 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 6                  | 0.0                 | 1.3  | ----- | 0.0     | 2.5  | ----- | 0.0      | 3.3  | ----- |
| Hysterectomy.....                          | 1                  | 0.0                 | 0.2  | ----- | 0.0     | 0.6  | ----- | 0.0      | 1.1  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# KENTUCKY RIVER MEDICAL CENTER

Medicare Provider Number: 180139

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 73.6 years  
Proportion female..... 55.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 32.9 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.2 %  
Admitted for emergency..... 68.0 %

### COMORBIDITIES:

Cancer..... 4.3 %  
Chronic cardiovascular disease..... 30.9 %  
Chronic liver disease..... 1.1 %  
Chronic renal disease..... 3.1 %  
Chronic pulmonary disease..... 21.5 %  
Cerebrovascular degeneration..... 5.9 %  
Diabetes mellitus..... 12.6 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 47.0%  
State ..... 51.6%  
Outside State ..... 1.4%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 4.0 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: Health Care Financing Administration (OSCAR)\*\* - Survey Year 1991

### PROFILE:

Total Beds ..... 55  
Ownership/Control..... Private, Non-Profit  
Case Mix Index (CMI) ..... 0.9341

### STAFFING:

Medical Residents/Interns ..... 1  
Registered Nurses..... 39  
Licensed Practical Nurses ..... 20

### SPECIALTY SERVICES:

Burn Unit ..... No  
Coronary Care Unit ..... Yes  
Hospice Care ..... No  
Intensive Care Unit ..... Yes  
Organ Transplant ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... Yes  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# KINGS DAUGHTERS MEDICAL CENTER

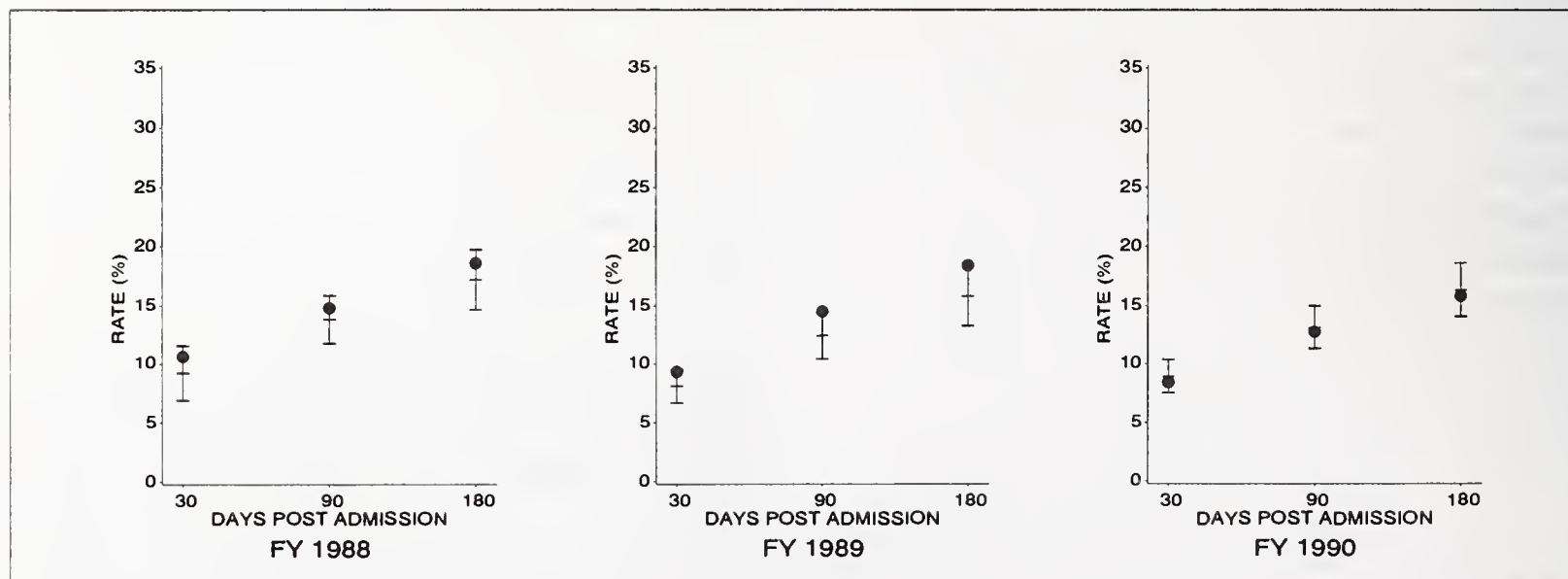
2201 LEXINGTON AV  
ASHLAND, KY 41101  
Medicare Provider Number: 180009

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 2506            | 8.4                 | 8.9  | 0.7   | 12.7    | 13.1 | 0.9   | 15.8     | 16.3 | 1.1   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 86              | 22.1                | 24.2 | 4.9   | 22.1    | 27.2 | 5.7   | 25.6     | 30.1 | 6.2   |
| Congestive Heart Failure.....              | 108             | 9.3                 | 14.5 | 4.6   | 17.6    | 23.0 | 6.7   | 19.4     | 29.3 | 7.6   |
| Pneumonia/Influenza.....                   | 178             | 14.0                | 13.6 | 3.3   | 21.9    | 18.8 | 4.6   | 27.0     | 22.4 | 5.0   |
| Chronic Obstructive Pulmonary Disease..... | 40              | 5.0                 | 5.5  | ----- | 10.0    | 10.3 | ----- | 10.0     | 14.4 | ----- |
| Transient Cerebral Ischemia.....           | 44              | 0.0                 | 1.2  | ----- | 2.3     | 3.0  | ----- | 4.5      | 5.3  | ----- |
| Stroke.....                                | 92              | 22.8                | 20.1 | 4.7   | 28.3    | 25.3 | 5.2   | 28.3     | 28.9 | 4.8   |
| Hip Fracture.....                          | 59              | 8.5                 | 6.3  | 3.6   | 13.6    | 11.2 | 5.5   | 20.3     | 14.7 | 7.8   |
| Sepsis.....                                | 57              | 21.1                | 30.7 | 10.6  | 28.1    | 38.2 | 11.4  | 36.8     | 43.0 | 11.7  |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 9               | 0.0                 | 1.8  | ----- | 0.0     | 4.0  | ----- | 0.0      | 6.3  | ----- |
| Carotid Endarterectomy.....                | 6               | 16.7                | 1.1  | ----- | 16.7    | 2.0  | ----- | 16.7     | 3.0  | ----- |
| Hip Replacement/Reconstruction.....        | 30              | 6.7                 | 5.1  | ----- | 10.0    | 9.3  | ----- | 16.7     | 12.3 | ----- |
| Open Reduction of Hip Fracture.....        | 28              | 3.6                 | 5.3  | ----- | 7.1     | 9.9  | ----- | 10.7     | 13.6 | ----- |
| Prostatectomy.....                         | 71              | 2.8                 | 1.1  | 2.2   | 4.2     | 2.6  | 3.2   | 7.0      | 4.4  | 4.0   |
| Cholecystectomy.....                       | 41              | 2.4                 | 1.3  | ----- | 2.4     | 2.3  | ----- | 4.9      | 3.0  | ----- |
| Hysterectomy.....                          | 22              | 0.0                 | 0.4  | ----- | 0.0     | 1.0  | ----- | 0.0      | 1.6  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# KINGS DAUGHTERS MEDICAL CENTER

Medicare Provider Number: 180009

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 72.6 years  
Proportion female..... 55.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 38.0 %  
Transferred from skilled nursing facility..... 0.5 %  
Admitted for elective procedure..... 7.1 %  
Admitted for emergency..... 1.0 %

### COMORBIDITIES:

Cancer..... 6.4 %  
Chronic cardiovascular disease..... 25.1 %  
Chronic liver disease..... 0.4 %  
Chronic renal disease..... 3.0 %  
Chronic pulmonary disease..... 9.3 %  
Cerebrovascular degeneration..... 3.0 %  
Diabetes mellitus..... 8.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 56.8%  
State ..... 29.1%  
Outside State ..... 14.1%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 7.3 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 307  
Occupancy Rate ..... 67.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 33.7 %  
Case Mix Index (CMI) ..... 1.1208

### STAFFING:

Total Number of Physicians..... 109  
Percent of Physicians Board  
Certified Specialists ..... 73.4 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 265  
Licensed Practical Nurses ..... 116

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... Yes  
Psychiatric ..... Yes  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# KNOX COUNTY HOSPITAL

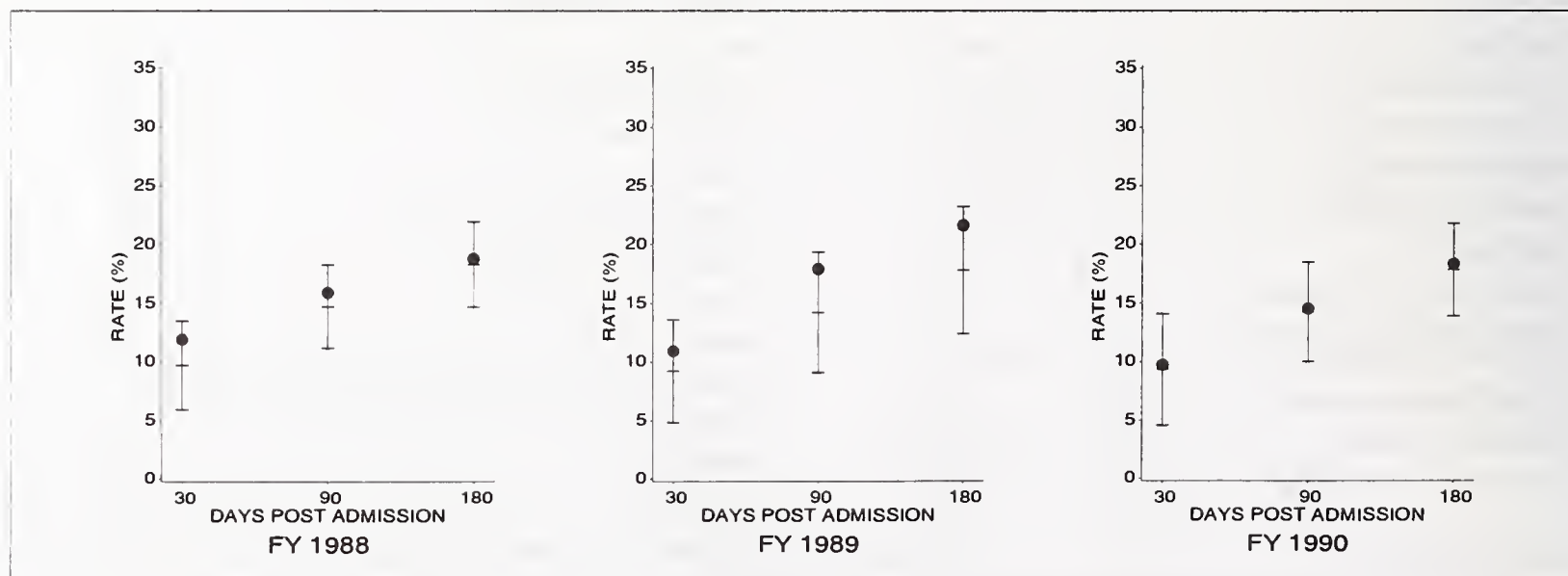
321 E HIGH ST  
BARBOURVILLE, KY 40906  
Medicare Provider Number: 180063

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 476             | 9.7                 | 9.3  | 2.4   | 14.5    | 14.2 | 2.1   | 18.3     | 17.8 | 2.0   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 10              | 50.0                | 27.5 | ----- | 60.0    | 29.9 | ----- | 60.0     | 32.8 | ----- |
| Congestive Heart Failure.....              | 24              | 29.2                | 15.3 | ----- | 41.7    | 23.9 | ----- | 41.7     | 30.5 | ----- |
| Pneumonia/Influenza.....                   | 14              | 14.3                | 10.9 | ----- | 21.4    | 14.7 | ----- | 21.4     | 17.0 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 14              | 7.1                 | 6.0  | ----- | 14.3    | 11.4 | ----- | 14.3     | 16.0 | ----- |
| Transient Cerebral Ischemia.....           | 10              | 0.0                 | 2.0  | ----- | 0.0     | 4.5  | ----- | 0.0      | 7.4  | ----- |
| Stroke.....                                | 26              | 11.5                | 17.7 | ----- | 19.2    | 23.0 | ----- | 23.1     | 26.3 | ----- |
| Hip Fracture.....                          | 1               | 0.0                 | 4.2  | ----- | 0.0     | 8.5  | ----- | 0.0      | 13.4 | ----- |
| Sepsis.....                                | 1               | 0.0                 | 9.3  | ----- | 0.0     | 13.1 | ----- | 0.0      | 15.9 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 6               | 0.0                 | 2.3  | ----- | 0.0     | 3.9  | ----- | 0.0      | 5.0  | ----- |
| Hysterectomy.....                          | 2               | 0.0                 | 0.1  | ----- | 0.0     | 0.3  | ----- | 0.0      | 0.6  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# KNOX COUNTY HOSPITAL

Medicare Provider Number: 180063

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 72.4 years  
Proportion female..... 54.0 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 23.9 %  
Transferred from skilled nursing facility..... 0.8 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 0.4 %

### COMORBIDITIES:

Cancer..... 5.0 %  
Chronic cardiovascular disease..... 38.7 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 1.7 %  
Chronic pulmonary disease..... 27.1 %  
Cerebrovascular degeneration..... 3.2 %  
Diabetes mellitus..... 15.3 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 88.3%  
State ..... 10.1%  
Outside State ..... 1.6%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.7 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 58  
Occupancy Rate ..... 48.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 41.4 %  
Case Mix Index (CMI) ..... 1.0496

### STAFFING:

Total Number of Physicians..... 10  
Percent of Physicians Board  
Certified Specialists..... 50.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 22  
Licensed Practical Nurses ..... 31

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# LIVINGSTON COUNTY HOSPITAL INC

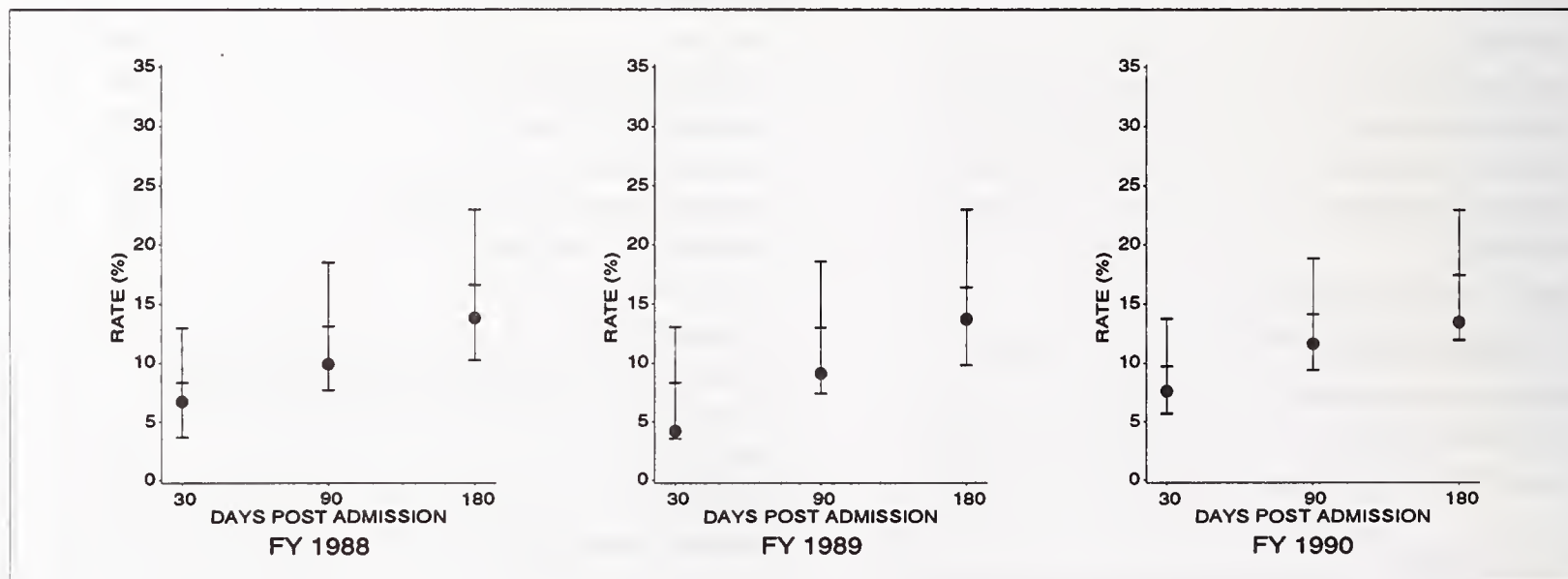
HIGHWAY 60 E  
SALEM, KY 42078  
Medicare Provider Number: 180121

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 276             | 7.6                 | 9.7  | 2.0   | 11.6    | 14.1 | 2.4   | 13.4     | 17.4 | 2.8   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 7               | 71.4                | 37.7 | ----- | 71.4    | 42.9 | ----- | 71.4     | 47.2 | ----- |
| Congestive Heart Failure.....              | 9               | 11.1                | 10.9 | ----- | 22.2    | 17.2 | ----- | 22.2     | 22.5 | ----- |
| Pneumonia/Influenza.....                   | 26              | 0.0                 | 10.4 | ----- | 0.0     | 14.4 | ----- | 0.0      | 17.0 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 13              | 23.1                | 12.2 | ----- | 23.1    | 21.2 | ----- | 23.1     | 26.8 | ----- |
| Transient Cerebral Ischemia.....           | 3               | 0.0                 | 1.3  | ----- | 0.0     | 3.0  | ----- | 0.0      | 4.9  | ----- |
| Stroke.....                                | 7               | 14.3                | 13.5 | ----- | 28.6    | 19.3 | ----- | 28.6     | 22.7 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 1               | 100.0               | 30.2 | ----- | 100.0   | 33.2 | ----- | 100.0    | 36.2 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 8               | 0.0                 | 1.6  | ----- | 0.0     | 2.8  | ----- | 0.0      | 3.5  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) Is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# LIVINGSTON COUNTY HOSPITAL INC

Medicare Provider Number: 180121

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 72.2 years  
Proportion female..... 51.4 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 25.0 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 0.0 %

### COMORBIDITIES:

Cancer..... 5.4 %  
Chronic cardiovascular disease..... 28.6 %  
Chronic liver disease..... 1.1 %  
Chronic renal disease..... 2.5 %  
Chronic pulmonary disease..... 13.4 %  
Cerebrovascular degeneration..... 6.2 %  
Diabetes mellitus..... 9.4 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 53.4%  
State ..... 46.2%  
Outside State ..... 0.4%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.2 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 26  
Occupancy Rate ..... 50.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 44.1 %  
Case Mix Index (CMI) ..... 1.0812

### STAFFING:

Total Number of Physicians..... 2  
Percent of Physicians Board  
Certified Specialists..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 18  
Licensed Practical Nurses..... 3

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# LOGAN MEMORIAL HOSPITAL

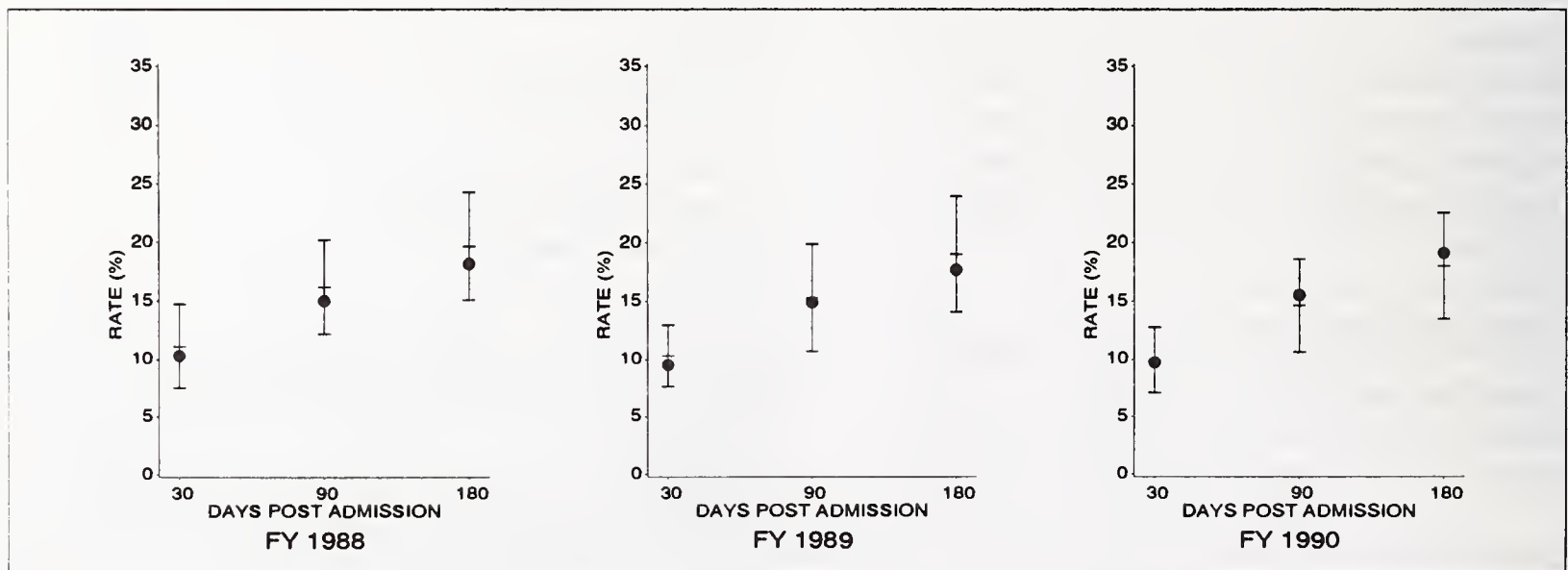
1625 S NASHVILLE RD  
RUSSELLVILLE, KY 42276  
Medicare Provider Number: 180066

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 586             | 9.7                 | 9.9  | 1.4   | 15.5    | 14.6 | 2.0   | 19.1     | 18.0 | 2.3   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 21              | 38.1                | 35.7 | ----- | 42.9    | 39.0 | ----- | 42.9     | 42.0 | ----- |
| Congestive Heart Failure.....              | 41              | 22.0                | 14.5 | ----- | 26.8    | 22.6 | ----- | 34.1     | 28.8 | ----- |
| Pneumonia/Influenza.....                   | 47              | 8.5                 | 13.1 | ----- | 14.9    | 17.5 | ----- | 23.4     | 20.9 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 20              | 0.0                 | 4.5  | ----- | 10.0    | 8.1  | ----- | 10.0     | 11.4 | ----- |
| Transient Cerebral Ischemia.....           | 15              | 0.0                 | 1.6  | ----- | 0.0     | 3.6  | ----- | 0.0      | 5.7  | ----- |
| Stroke.....                                | 25              | 20.0                | 20.3 | ----- | 32.0    | 26.1 | ----- | 32.0     | 30.1 | ----- |
| Hip Fracture.....                          | 8               | 0.0                 | 6.6  | ----- | 0.0     | 11.6 | ----- | 0.0      | 15.0 | ----- |
| Sepsis.....                                | 5               | 0.0                 | 12.4 | ----- | 0.0     | 16.3 | ----- | 20.0     | 19.5 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 6               | 0.0                 | 3.0  | ----- | 0.0     | 5.9  | ----- | 0.0      | 8.1  | ----- |
| Open Reduction of Hip Fracture.....        | 2               | 0.0                 | 12.5 | ----- | 0.0     | 20.4 | ----- | 0.0      | 24.5 | ----- |
| Prostatectomy.....                         | 5               | 0.0                 | 1.7  | ----- | 20.0    | 3.9  | ----- | 20.0     | 6.4  | ----- |
| Cholecystectomy.....                       | 12              | 0.0                 | 1.3  | ----- | 0.0     | 2.4  | ----- | 0.0      | 3.3  | ----- |
| Hysterectomy.....                          | 1               | 0.0                 | 0.1  | ----- | 0.0     | 0.2  | ----- | 0.0      | 0.4  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# LOGAN MEMORIAL HOSPITAL

Medicare Provider Number: 180066

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.0 years  
Proportion female..... 58.0 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 43.0 %  
Transferred from skilled nursing facility..... 0.2 %  
Admitted for elective procedure..... 10.6 %  
Admitted for emergency..... 51.9 %

### COMORBIDITIES:

Cancer..... 5.5 %  
Chronic cardiovascular disease..... 47.4 %  
Chronic liver disease..... 0.5 %  
Chronic renal disease..... 2.0 %  
Chronic pulmonary disease..... 20.5 %  
Cerebrovascular degeneration..... 3.1 %  
Diabetes mellitus..... 5.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 86.6%  
State..... 11.8%  
Outside State..... 1.6%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 7.8 Days  
State..... 8.2 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 100  
Occupancy Rate..... 32.0 %  
Ownership/Control..... Private, For Profit  
Medicare Discharges..... 49.3 %  
Case Mix Index (CMI)..... 1.0986

### STAFFING:

Total Number of Physicians..... 13  
Percent of Physicians Board  
Certified Specialists..... 46.2 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 40  
Licensed Practical Nurses..... 13

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



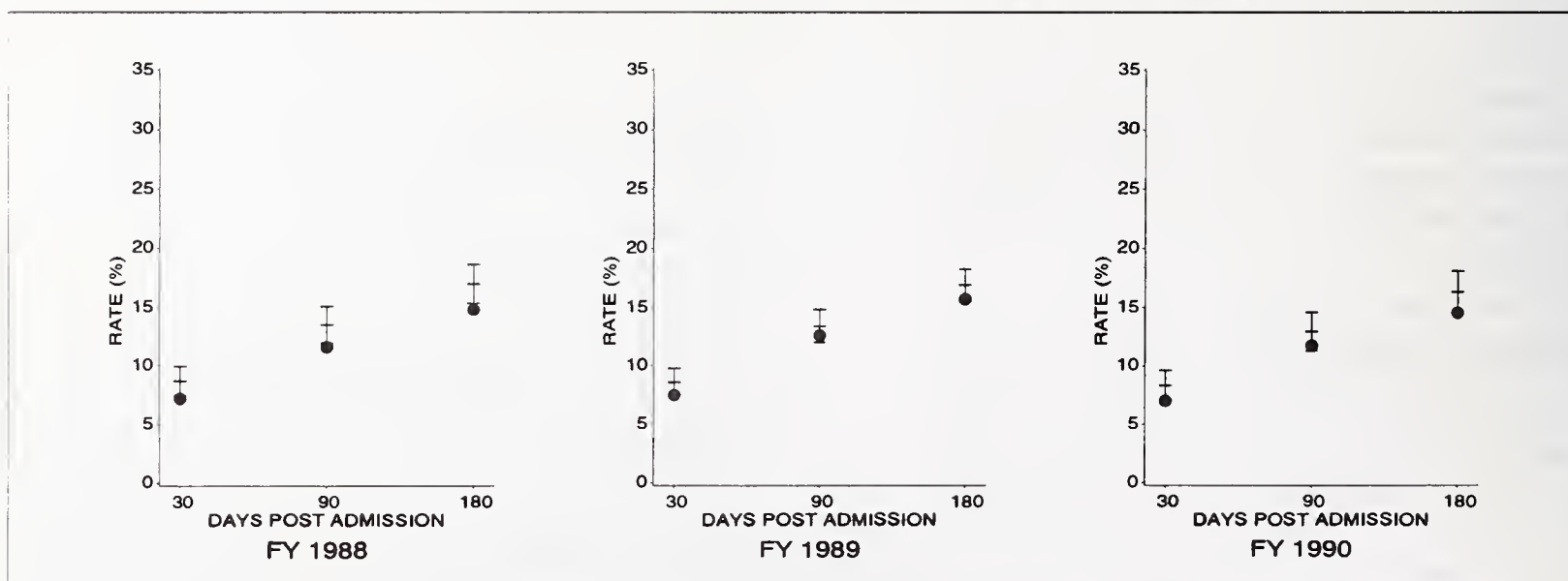
**LOURDES HOSPITAL**  
1530 LONE OAK RD  
PADUCAH, KY 42001  
Medicare Provider Number: 180102

**FY 1990 MEDICARE HOSPITAL MORTALITY RATES**

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 3150            | 7.0                 | 8.3  | 0.7   | 11.7    | 12.9 | 0.8   | 14.5     | 16.3 | 0.9   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 66              | 25.8                | 24.6 | 5.6   | 28.8    | 27.2 | 6.3   | 30.3     | 29.7 | 6.4   |
| Congestive Heart Failure.....              | 101             | 7.9                 | 14.4 | 6.5   | 17.8    | 23.5 | 8.1   | 24.8     | 30.1 | 7.8   |
| Pneumonia/Influenza.....                   | 203             | 7.4                 | 15.3 | 3.6   | 15.3    | 21.1 | 3.7   | 19.2     | 25.0 | 4.0   |
| Chronic Obstructive Pulmonary Disease..... | 61              | 0.0                 | 5.8  | 4.3   | 4.9     | 10.8 | 5.3   | 6.6      | 14.8 | 6.5   |
| Transient Cerebral Ischemia.....           | 69              | 0.0                 | 2.0  | 2.4   | 2.9     | 4.3  | 3.2   | 7.2      | 6.9  | 4.1   |
| Stroke.....                                | 108             | 18.5                | 21.6 | 5.8   | 25.9    | 28.1 | 6.3   | 31.5     | 32.0 | 5.7   |
| Hip Fracture.....                          | 67              | 4.5                 | 6.6  | 3.5   | 13.4    | 11.5 | 4.3   | 13.4     | 14.9 | 4.8   |
| Sepsis.....                                | 31              | 25.8                | 23.0 | ----- | 41.9    | 34.5 | ----- | 41.9     | 39.9 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 1               | 100.0               | 8.1  | ----- | 100.0   | 8.7  | ----- | 100.0    | 9.5  | ----- |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 23              | 0.0                 | 3.1  | ----- | 4.3     | 6.0  | ----- | 8.7      | 8.8  | ----- |
| Carotid Endarterectomy.....                | 43              | 7.0                 | 1.8  | ----- | 11.6    | 3.2  | ----- | 14.0     | 4.7  | ----- |
| Hip Replacement/Reconstruction.....        | 49              | 2.0                 | 3.5  | ----- | 6.1     | 6.5  | ----- | 6.1      | 8.7  | ----- |
| Open Reduction of Hip Fracture.....        | 38              | 5.3                 | 6.1  | ----- | 15.8    | 10.9 | ----- | 15.8     | 14.3 | ----- |
| Prostatectomy.....                         | 83              | 2.4                 | 1.4  | 1.5   | 3.6     | 3.3  | 2.1   | 3.6      | 5.6  | 3.1   |
| Cholecystectomy.....                       | 74              | 5.4                 | 3.2  | 2.6   | 9.5     | 5.8  | 3.2   | 10.8     | 7.7  | 4.8   |
| Hysterectomy.....                          | 22              | 0.0                 | 0.3  | ----- | 0.0     | 0.6  | ----- | 0.0      | 1.0  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

**OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD)  
FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES**



**LOURDES HOSPITAL**  
Medicare Provider Number: 180102

**FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES**

**DEMOGRAPHICS:**

Average age at admission..... 72.7 years  
Proportion female..... 54.9 %

**ADMISSION SOURCES/TYPES:**

Referred by personal or HMO physician..... 38.3 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 25.2 %  
Admitted for emergency..... 59.9 %

**COMORBIDITIES:**

Cancer..... 7.7 %  
Chronic cardiovascular disease..... 35.0 %  
Chronic liver disease..... 1.0 %  
Chronic renal disease..... 2.7 %  
Chronic pulmonary disease..... 37.8 %  
Cerebrovascular degeneration..... 2.8 %  
Diabetes mellitus..... 7.7 %

**ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\***

**ORIGIN OF MEDICARE PATIENT ADMISSION:**

County/City ..... 37.0%  
State ..... 47.7%  
Outside State ..... 15.3%  
Total ..... 100.0%

**MEDICARE AVERAGE LENGTH OF STAY:**

Hospital ..... 9.6 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

**HOSPITAL CHARACTERISTICS\***

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

**PROFILE:**

Total Beds ..... 354  
Occupancy Rate ..... 72.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 50.1 %  
Case Mix Index (CMI) ..... 1.3363

**STAFFING:**

Total Number of Physicians..... 127  
Percent of Physicians Board  
Certified Specialists ..... 75.6 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 266  
Licensed Practical Nurses ..... 110

**SPECIALTY SERVICES:**

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

**OTHER SPECIALTY/HOSPITAL-BASED SERVICES:**

Alcohol/Drug ..... No  
Rehabilitation..... Yes  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# MARCUM & WALLACE MEMORIAL HOSPITAL

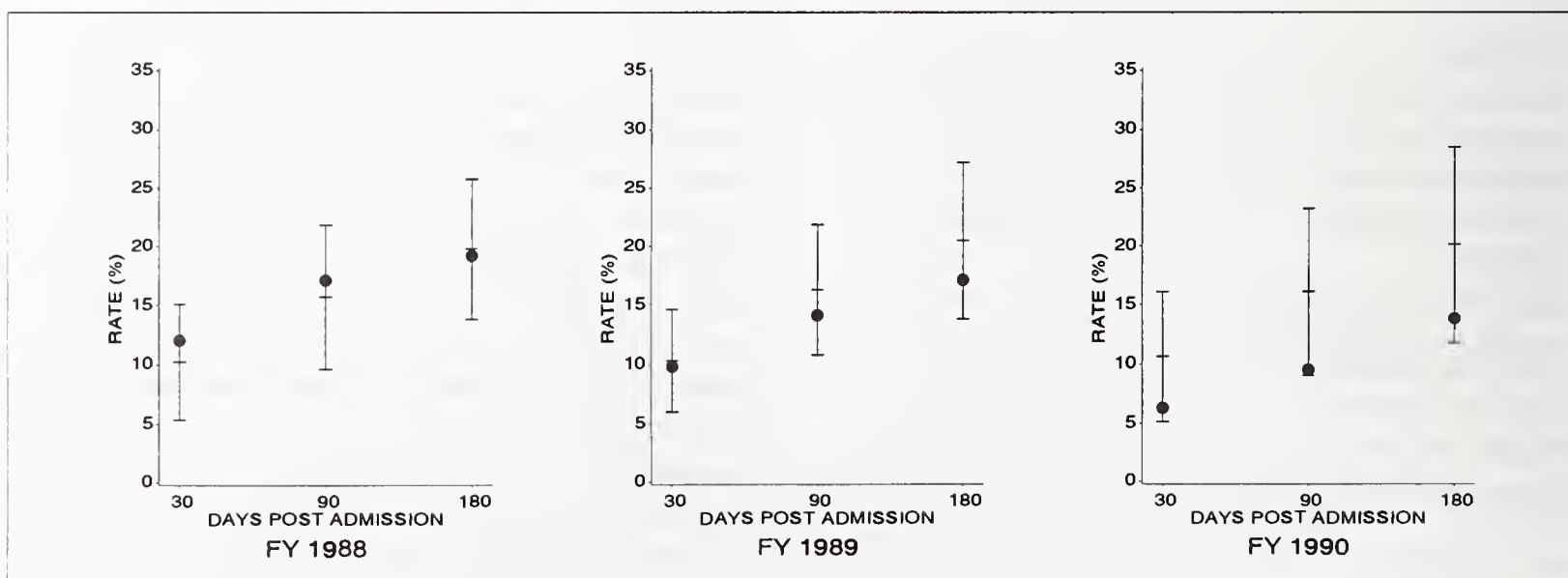
201 RICHMOND AV  
IRVINE, KY 40336  
Medicare Provider Number: 180058

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|-----------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                 | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                 | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 189             | 6.3                 | 10.6 | 2.7  | 9.5     | 16.1 | 3.6  | 13.8     | 20.1 | 4.2  |
| CONDITIONS:                                |                 |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 1               | 100.0               | 20.0 | ---- | 100.0   | 22.1 | ---- | 100.0    | 24.3 | ---- |
| Congestive Heart Failure.....              | 11              | 9.1                 | 18.8 | ---- | 18.2    | 28.0 | ---- | 18.2     | 35.4 | ---- |
| Pneumonia/Influenza.....                   | 17              | 5.9                 | 17.9 | ---- | 11.8    | 24.5 | ---- | 17.6     | 28.5 | ---- |
| Chronic Obstructive Pulmonary Disease..... | 5               | 0.0                 | 9.9  | ---- | 0.0     | 15.0 | ---- | 0.0      | 19.3 | ---- |
| Transient Cerebral Ischemia.....           | 9               | 0.0                 | 1.7  | ---- | 0.0     | 3.9  | ---- | 0.0      | 6.7  | ---- |
| Stroke.....                                | 8               | 25.0                | 28.8 | ---- | 25.0    | 35.4 | ---- | 25.0     | 39.8 | ---- |
| Hip Fracture.....                          | 0               |                     |      |      |         |      |      |          |      |      |
| Sepsis.....                                | 2               | 50.0                | 32.5 | ---- | 50.0    | 38.4 | ---- | 50.0     | 41.3 | ---- |
| PROCEDURES:                                |                 |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0               |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 0               |                     |      |      |         |      |      |          |      |      |
| Carotid Endarterectomy.....                | 0               |                     |      |      |         |      |      |          |      |      |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |      |         |      |      |          |      |      |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |      |         |      |      |          |      |      |
| Prostatectomy.....                         | 0               |                     |      |      |         |      |      |          |      |      |
| Cholecystectomy.....                       | 0               |                     |      |      |         |      |      |          |      |      |
| Hysterectomy.....                          | 0               |                     |      |      |         |      |      |          |      |      |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# MARCUM & WALLACE MEMORIAL HOSPITAL

Medicare Provider Number: 180058

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 79.1 years  
Proportion female..... 66.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 45.5 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 52.4 %

### COMORBIDITIES:

Cancer..... 3.2 %  
Chronic cardiovascular disease..... 51.9 %  
Chronic liver disease..... 1.1 %  
Chronic renal disease..... 0.5 %  
Chronic pulmonary disease..... 13.8 %  
Cerebrovascular degeneration..... 10.6 %  
Diabetes mellitus..... 7.4 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 92.4%  
State ..... 6.1%  
Outside State ..... 1.5%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.0 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 26  
Occupancy Rate ..... 50.0 %  
Ownership/Control..... Church  
Medicare Discharges .....(Not Available)  
Case Mix Index (CMI) ..... 0.9135

### STAFFING:

Total Number of Physicians..... 6  
Percent of Physicians Board  
Certified Specialists ..... 66.7 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 8  
Licensed Practical Nurses ..... 4

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# MARSHALL COUNTY HOSPITAL

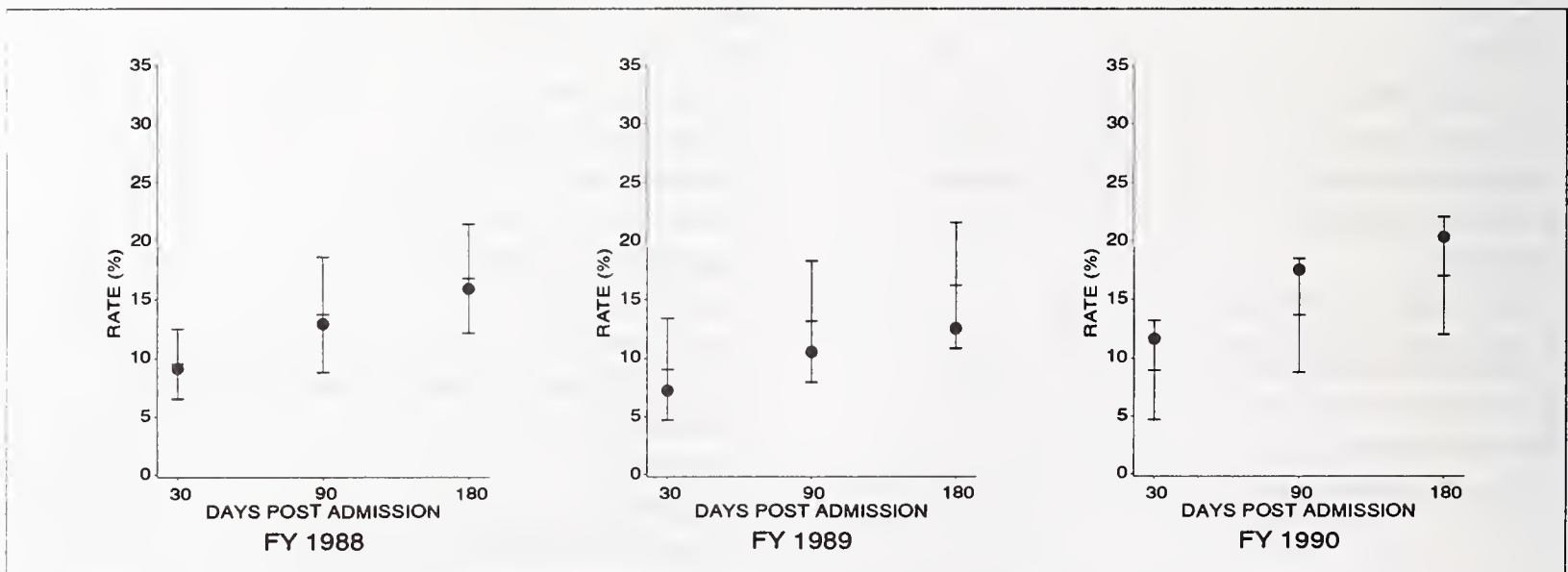
503 GEORGE MCCLAIN DR  
BENTON, KY 42025  
Medicare Provider Number: 180026

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 424             | 11.6                | 8.9  | 2.1   | 17.5    | 13.6 | 2.4   | 20.3     | 17.0 | 2.5   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 13              | 23.1                | 27.9 | ----- | 30.8    | 31.2 | ----- | 30.8     | 33.4 | ----- |
| Congestive Heart Failure.....              | 27              | 25.9                | 18.2 | ----- | 25.9    | 27.5 | ----- | 29.6     | 34.4 | ----- |
| Pneumonia/Influenza.....                   | 18              | 16.7                | 15.4 | ----- | 27.8    | 21.2 | ----- | 27.8     | 25.3 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 10              | 0.0                 | 6.2  | ----- | 0.0     | 11.4 | ----- | 20.0     | 15.6 | ----- |
| Transient Cerebral Ischemia.....           | 21              | 4.8                 | 1.5  | ----- | 9.5     | 3.3  | ----- | 9.5      | 5.4  | ----- |
| Stroke.....                                | 25              | 40.0                | 20.9 | ----- | 48.0    | 29.1 | ----- | 56.0     | 33.6 | ----- |
| Hip Fracture.....                          | 14              | 14.3                | 4.1  | ----- | 14.3    | 8.0  | ----- | 14.3     | 11.0 | ----- |
| Sepsis.....                                | 3               | 0.0                 | 22.9 | ----- | 33.3    | 29.9 | ----- | 33.3     | 35.1 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 1               | 0.0                 | 2.1  | ----- | 0.0     | 4.9  | ----- | 0.0      | 8.7  | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 3               | 0.0                 | 2.8  | ----- | 0.0     | 5.7  | ----- | 0.0      | 7.8  | ----- |
| Open Reduction of Hip Fracture.....        | 7               | 14.3                | 4.0  | ----- | 14.3    | 7.6  | ----- | 14.3     | 10.5 | ----- |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 15              | 6.7                 | 2.8  | ----- | 6.7     | 5.9  | ----- | 13.3     | 8.6  | ----- |
| Hysterectomy.....                          | 3               | 0.0                 | 4.0  | ----- | 0.0     | 8.8  | ----- | 0.0      | 13.4 | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MARSHALL COUNTY HOSPITAL

Medicare Provider Number: 180026

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.8 years  
Proportion female..... 54.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 26.9 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.2 %  
Admitted for emergency..... 36.8 %

### COMORBIDITIES:

Cancer..... 4.5 %  
Chronic cardiovascular disease..... 29.0 %  
Chronic liver disease..... 0.2 %  
Chronic renal disease..... 1.4 %  
Chronic pulmonary disease..... 9.2 %  
Cerebrovascular degeneration..... 3.1 %  
Diabetes mellitus..... 4.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 90.6%  
State ..... 7.9%  
Outside State ..... 1.5%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.0 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 80  
Occupancy Rate ..... 68.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... (Not Available)  
Case Mix Index (CMI) ..... 0.9947

### STAFFING:

Total Number of Physicians..... (Not Available)  
Percent of Physicians Board  
Certified Specialists ..... (Not Available)  
Medical Residents/Interns ..... (Not Available)  
Registered Nurses..... (Not Available)  
Licensed Practical Nurses ..... (Not Available)

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# MARY BRECKINRIDGE HOSPITAL

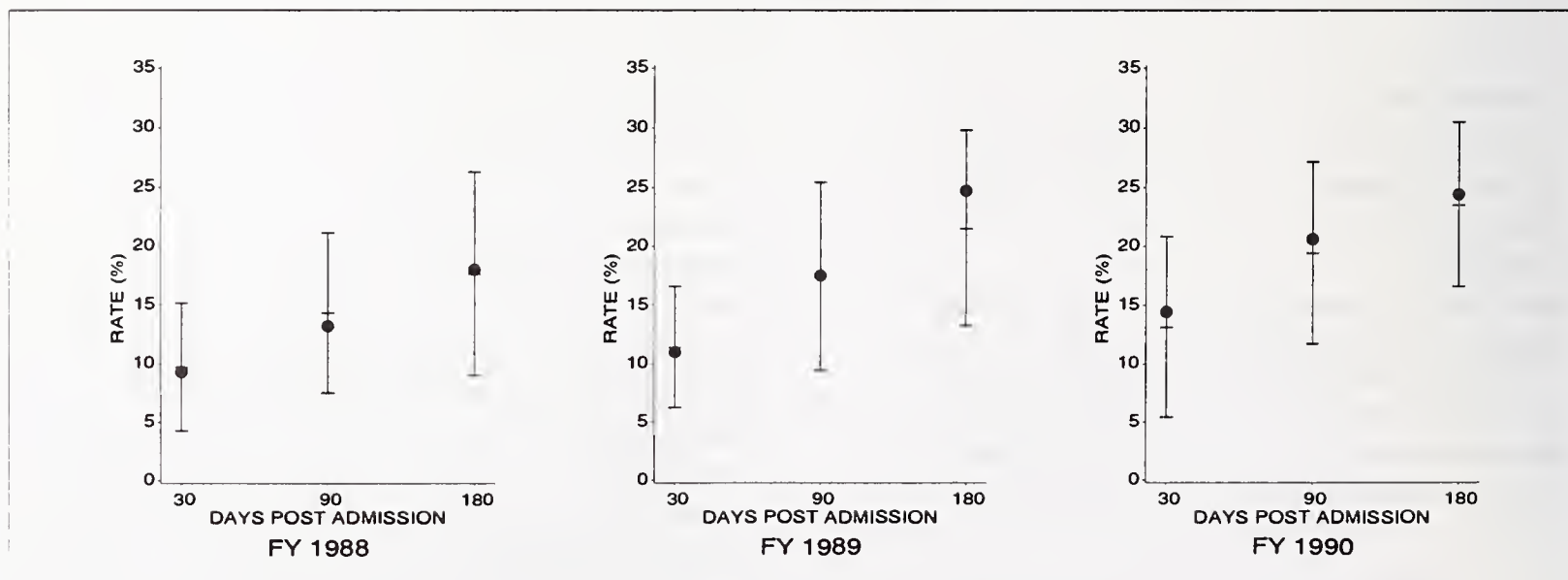
HOSPITAL DR  
HYDEN, KY 41749  
Medicare Provider Number: 180129

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 160                | 14.4                | 13.1 | 3.9   | 20.6    | 19.4 | 3.9   | 24.4     | 23.5 | 3.5   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 6                  | 16.7                | 20.6 | ----- | 16.7    | 23.2 | ----- | 16.7     | 25.7 | ----- |
| Congestive Heart Failure.....              | 9                  | 22.2                | 15.3 | ----- | 33.3    | 24.9 | ----- | 33.3     | 31.6 | ----- |
| Pneumonia/Influenza.....                   | 23                 | 4.3                 | 13.5 | ----- | 4.3     | 17.9 | ----- | 4.3      | 21.3 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 10                 | 0.0                 | 7.0  | ----- | 10.0    | 12.4 | ----- | 20.0     | 17.1 | ----- |
| Transient Cerebral Ischemia.....           | 1                  | 0.0                 | 5.3  | ----- | 0.0     | 12.0 | ----- | 0.0      | 20.1 | ----- |
| Stroke.....                                | 3                  | 33.3                | 21.0 | ----- | 33.3    | 29.7 | ----- | 33.3     | 35.4 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 3                  | 0.0                 | 26.0 | ----- | 0.0     | 32.6 | ----- | 0.0      | 37.8 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 3                  | 33.3                | 4.4  | ----- | 33.3    | 7.5  | ----- | 33.3     | 9.2  | ----- |
| Hysterectomy.....                          | 0                  |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MARY BRECKINRIDGE HOSPITAL

Medicare Provider Number: 180129

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 71.6 years  
Proportion female..... 60.0 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 1.9 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 1.3 %

### COMORBIDITIES:

Cancer..... 5.6 %  
Chronic cardiovascular disease..... 55.6 %  
Chronic liver disease..... 2.5 %  
Chronic renal disease..... 4.4 %  
Chronic pulmonary disease..... 30.0 %  
Cerebrovascular degeneration..... 1.9 %  
Diabetes mellitus..... 10.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 75.0%  
State ..... 23.3%  
Outside State ..... 1.7%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.3 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: Health Care Financing Administration (OSCAR)\*\* - Survey Year 1991

### PROFILE:

Total Beds ..... 40  
Ownership/Control..... Private, Non-Profit  
Case Mix Index (CMI) ..... 1.1679

### STAFFING:

Medical Residents/Interns ..... 4  
Registered Nurses..... 15  
Licensed Practical Nurses ..... 7

### SPECIALTY SERVICES:

Burn Unit ..... No  
Coronary Care Unit ..... No  
Hospice Care ..... No  
Intensive Care Unit ..... No  
Organ Transplant ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# MARY CHILES HOSPITAL

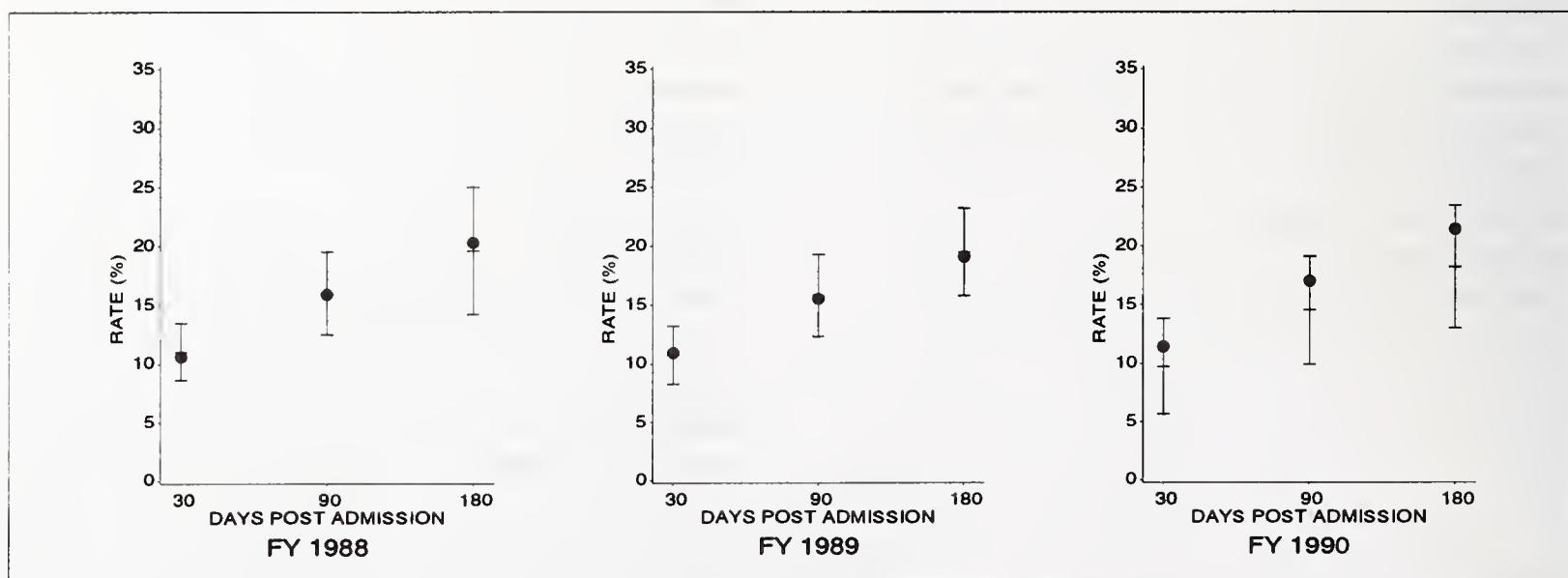
50 STERLING AVE, BOX 7  
MOUNT STERLING, KY 40353  
Medicare Provider Number: 180064

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 640             | 11.4                | 9.7  | 2.0   | 17.0    | 14.5 | 2.3   | 21.4     | 18.2 | 2.6   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 27              | 48.1                | 26.2 | ----- | 48.1    | 29.1 | ----- | 55.6     | 32.0 | ----- |
| Congestive Heart Failure.....              | 31              | 12.9                | 14.5 | ----- | 19.4    | 22.9 | ----- | 25.8     | 28.9 | ----- |
| Pneumonia/Influenza.....                   | 85              | 11.8                | 12.8 | 3.9   | 20.0    | 18.2 | 4.5   | 23.5     | 22.1 | 4.7   |
| Chronic Obstructive Pulmonary Disease..... | 22              | 0.0                 | 6.4  | ----- | 4.5     | 12.7 | ----- | 9.1      | 17.8 | ----- |
| Transient Cerebral Ischemia.....           | 13              | 7.7                 | 1.9  | ----- | 7.7     | 4.2  | ----- | 23.1     | 6.7  | ----- |
| Stroke.....                                | 21              | 33.3                | 19.6 | ----- | 42.9    | 26.2 | ----- | 42.9     | 30.3 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 4               | 75.0                | 28.2 | ----- | 75.0    | 33.7 | ----- | 100.0    | 39.6 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 2               | 0.0                 | 6.6  | ----- | 0.0     | 13.0 | ----- | 0.0      | 18.0 | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 4               | 0.0                 | 0.4  | ----- | 0.0     | 1.0  | ----- | 0.0      | 1.8  | ----- |
| Cholecystectomy.....                       | 14              | 0.0                 | 1.8  | ----- | 7.1     | 3.3  | ----- | 7.1      | 4.4  | ----- |
| Hysterectomy.....                          | 6               | 0.0                 | 0.4  | ----- | 0.0     | 1.0  | ----- | 0.0      | 1.6  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# MARY CHILES HOSPITAL

Medicare Provider Number: 180064

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.1 years  
Proportion female..... 58.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 93.4 %  
Transferred from skilled nursing facility..... 0.6 %  
Admitted for elective procedure..... 2.8 %  
Admitted for emergency..... 37.0 %

### COMORBIDITIES:

Cancer..... 4.7 %  
Chronic cardiovascular disease..... 33.8 %  
Chronic liver disease..... 1.3 %  
Chronic renal disease..... 0.9 %  
Chronic pulmonary disease..... 19.1 %  
Cerebrovascular degeneration..... 5.8 %  
Diabetes mellitus..... 9.4 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 58.1%  
State..... 40.6%  
Outside State..... 1.3%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 7.5 Days  
State..... 8.2 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 103  
Occupancy Rate..... 76.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges..... 37.8 %  
Case Mix Index (CMI)..... 1.0749

### STAFFING:

Total Number of Physicians..... 21  
Percent of Physicians Board  
Certified Specialists..... 85.7 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 41  
Licensed Practical Nurses..... 20

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... Yes  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# MARYMOUNT HOSPITAL

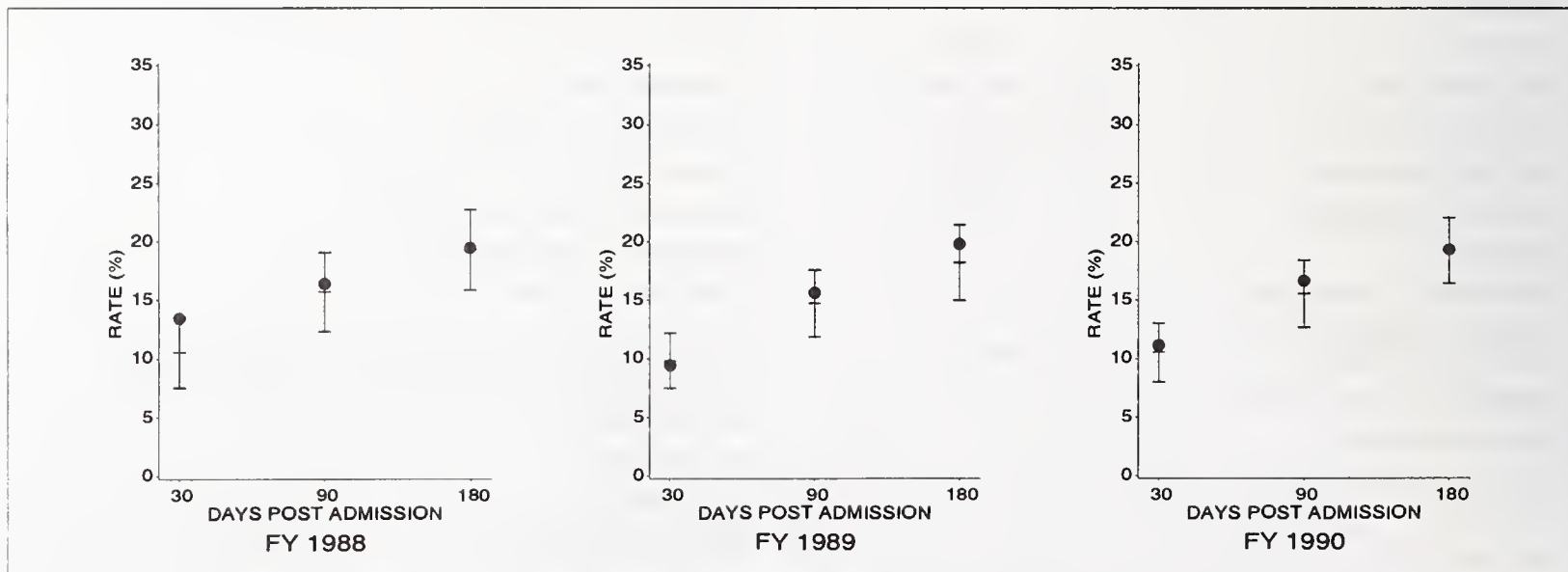
EAST NINTH ST  
LONDON, KY 40741  
Medicare Provider Number: 180011

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 929             | 11.1                | 10.5 | 1.3   | 16.6    | 15.5 | 1.4   | 19.3     | 19.2 | 1.4   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 44              | 36.4                | 24.8 | ----- | 40.9    | 27.8 | ----- | 40.9     | 30.6 | ----- |
| Congestive Heart Failure.....              | 39              | 17.9                | 15.3 | ----- | 30.8    | 24.6 | ----- | 33.3     | 31.0 | ----- |
| Pneumonia/Influenza.....                   | 44              | 13.6                | 16.8 | ----- | 20.5    | 23.2 | ----- | 22.7     | 27.4 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 31              | 9.7                 | 6.3  | ----- | 12.9    | 11.3 | ----- | 16.1     | 15.5 | ----- |
| Transient Cerebral Ischemia.....           | 16              | 0.0                 | 1.3  | ----- | 0.0     | 3.1  | ----- | 0.0      | 5.2  | ----- |
| Stroke.....                                | 32              | 12.5                | 18.1 | ----- | 15.6    | 24.1 | ----- | 21.9     | 28.0 | ----- |
| Hip Fracture.....                          | 22              | 9.1                 | 6.4  | ----- | 13.6    | 12.1 | ----- | 18.2     | 16.1 | ----- |
| Sepsis.....                                | 6               | 50.0                | 27.4 | ----- | 50.0    | 33.3 | ----- | 50.0     | 37.5 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 14              | 0.0                 | 3.0  | ----- | 0.0     | 6.3  | ----- | 0.0      | 9.9  | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 9               | 0.0                 | 6.3  | ----- | 0.0     | 12.5 | ----- | 11.1     | 17.4 | ----- |
| Open Reduction of Hip Fracture.....        | 4               | 25.0                | 3.8  | ----- | 25.0    | 7.3  | ----- | 25.0     | 10.1 | ----- |
| Prostatectomy.....                         | 17              | 0.0                 | 0.8  | ----- | 0.0     | 2.0  | ----- | 5.9      | 3.4  | ----- |
| Cholecystectomy.....                       | 15              | 6.7                 | 3.3  | ----- | 6.7     | 5.9  | ----- | 6.7      | 7.4  | ----- |
| Hysterectomy.....                          | 8               | 0.0                 | 0.3  | ----- | 0.0     | 0.6  | ----- | 0.0      | 1.0  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MARYMOUNT HOSPITAL

Medicare Provider Number: 180011

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 74.7 years  
Proportion female..... 55.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 45.1 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.1 %  
Admitted for emergency..... 79.7 %

### COMORBIDITIES:

Cancer..... 5.2 %  
Chronic cardiovascular disease..... 38.6 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 1.5 %  
Chronic pulmonary disease..... 18.7 %  
Cerebrovascular degeneration..... 7.6 %  
Diabetes mellitus..... 13.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 64.1%  
State ..... 33.7%  
Outside State ..... 2.2%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.8 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 67  
Occupancy Rate ..... 74.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... (Not Available)  
Case Mix Index (CMI) ..... 1.1601

### STAFFING:

Total Number of Physicians..... (Not Available)  
Percent of Physicians Board  
Certified Specialists ..... (Not Available)  
Medical Residents/Interns ..... (Not Available)  
Registered Nurses..... (Not Available)  
Licensed Practical Nurses ..... (Not Available)

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



# MCDOWELL APPALACHIAN REGIONAL HOSPITAL

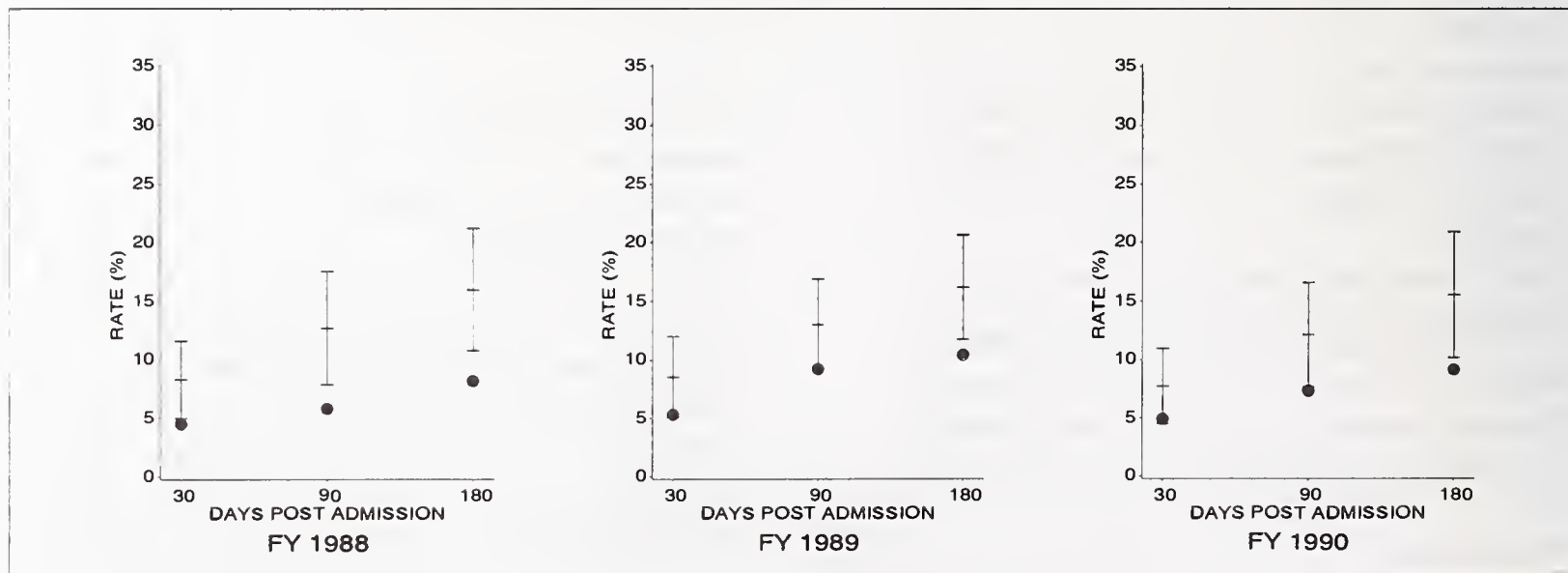
PO BOX 247  
MCDOWELL, KY 41647  
Medicare Provider Number: 180028

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 385             | 4.9                 | 7.7  | 1.6   | 7.3     | 12.1 | 2.2   | 9.1      | 15.5 | 2.7   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 5               | 40.0                | 30.5 | ----- | 40.0    | 33.7 | ----- | 40.0     | 37.0 | ----- |
| Congestive Heart Failure.....              | 16              | 6.3                 | 18.1 | ----- | 25.0    | 29.0 | ----- | 25.0     | 36.3 | ----- |
| Pneumonia/Influenza.....                   | 64              | 3.1                 | 12.5 | 6.0   | 7.8     | 17.4 | 7.2   | 7.8      | 20.9 | 7.8   |
| Chronic Obstructive Pulmonary Disease..... | 10              | 10.0                | 4.2  | ----- | 10.0    | 8.1  | ----- | 10.0     | 12.0 | ----- |
| Transient Cerebral Ischemia.....           | 8               | 0.0                 | 2.0  | ----- | 0.0     | 4.7  | ----- | 12.5     | 8.2  | ----- |
| Stroke.....                                | 3               | 0.0                 | 12.3 | ----- | 0.0     | 18.1 | ----- | 0.0      | 21.5 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 4               | 50.0                | 14.5 | ----- | 50.0    | 20.5 | ----- | 50.0     | 26.5 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 3               | 0.0                 | 0.7  | ----- | 0.0     | 1.2  | ----- | 0.0      | 1.6  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MCDOWELL APPALACHIAN REGIONAL HOSPITAL

Medicare Provider Number: 180028

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 70.5 years  
Proportion female..... 51.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 0.0 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 1.0 %  
Admitted for emergency..... 70.6 %

### COMORBIDITIES:

Cancer..... 3.4 %  
Chronic cardiovascular disease..... 36.1 %  
Chronic liver disease..... 0.3 %  
Chronic renal disease..... 1.6 %  
Chronic pulmonary disease..... 46.8 %  
Cerebrovascular degeneration..... 2.6 %  
Diabetes mellitus..... 10.4 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 92.6%  
State ..... 6.5%  
Outside State ..... 0.9%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.8 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 60  
Occupancy Rate ..... 45.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 35.4 %  
Case Mix Index (CMI) ..... 0.9853

### STAFFING:

Total Number of Physicians..... 8  
Percent of Physicians Board  
Certified Specialists..... 50.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 21  
Licensed Practical Nurses ..... 18

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# MCLEAN COUNTY GENERAL HOSPITAL INC

HIGHWAY 81 N  
CALHOUN, KY 42327  
Medicare Provider Number: 180060

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 41                 | 31.7                | 13.0 | ----- | 34.1    | 20.6 | ----- | 39.0     | 25.7 | ----- |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 1                  | 0.0                 | 41.9 | ----- | 0.0     | 45.0 | ----- | 0.0      | 48.0 | ----- |
| Congestive Heart Failure.....              | 2                  | 50.0                | 18.0 | ----- | 50.0    | 29.8 | ----- | 50.0     | 38.8 | ----- |
| Pneumonia/Influenza.....                   | 2                  | 50.0                | 13.7 | ----- | 50.0    | 20.1 | ----- | 50.0     | 25.6 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 1                  | 0.0                 | 3.1  | ----- | 0.0     | 6.6  | ----- | 0.0      | 9.5  | ----- |
| Transient Cerebral Ischemia.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Stroke.....                                | 1                  | 100.0               | 13.9 | ----- | 100.0   | 20.1 | ----- | 100.0    | 24.1 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 1                  | 100.0               | 13.7 | ----- | 100.0   | 17.3 | ----- | 100.0    | 22.1 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 0                  |                     |      |       |         |      |       |          |      |       |
| Hysterectomy.....                          | 0                  |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (\*) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES

No Graphs are presented when the standard deviation  
was not computed for one or more of the three fiscal years,  
(1988, 1989, or 1990)



# MCLEAN COUNTY GENERAL HOSPITAL INC

Medicare Provider Number: 180060

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.5 years  
Proportion female..... 58.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 100.0 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 4.9 %

### COMORBIDITIES:

Cancer..... 7.3 %  
Chronic cardiovascular disease..... 24.4 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 0.0 %  
Chronic pulmonary disease..... 22.0 %  
Cerebrovascular degeneration..... 17.1 %  
Diabetes mellitus..... 4.9 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 94.0%  
State ..... 4.5%  
Outside State ..... 1.5%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.5 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 26  
Occupancy Rate ..... 73.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 55.9 %  
Case Mix Index (CMI) ..... 0.9352

### STAFFING:

Total Number of Physicians..... (Not Available)  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 7  
Licensed Practical Nurses ..... 6

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# MEADOWVIEW REGIONAL HOSPITAL

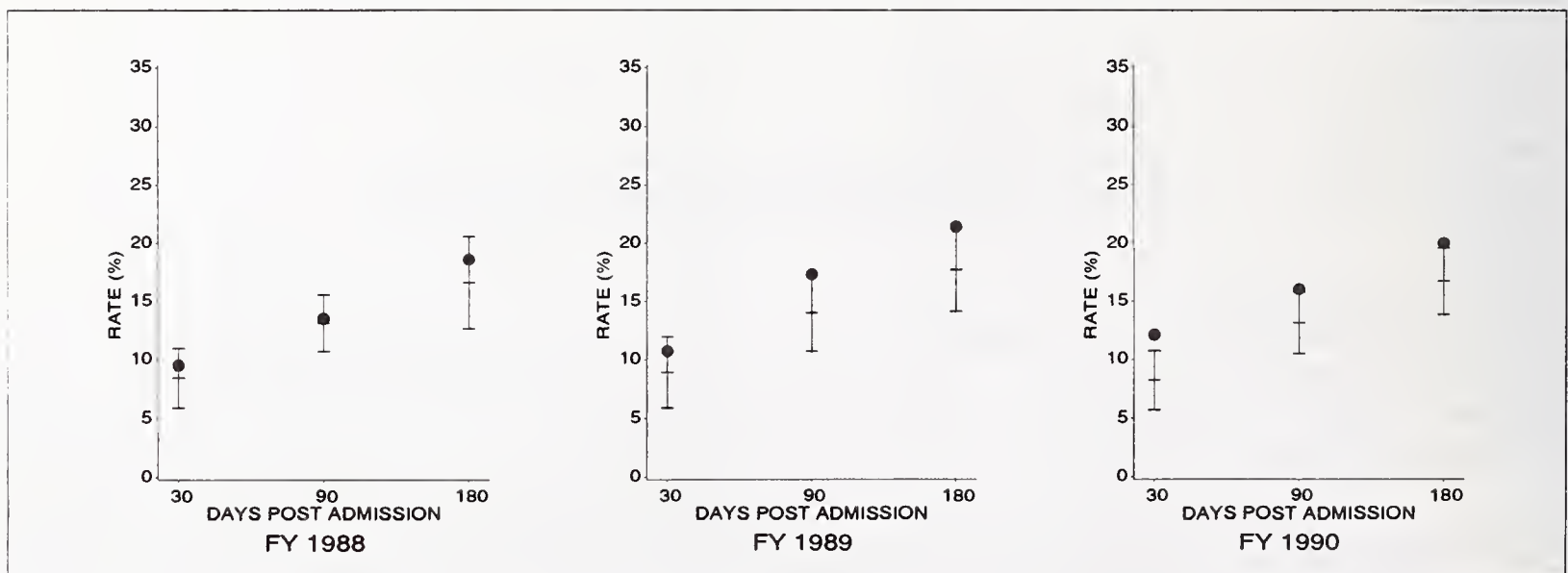
989 W HWY 10  
MAYSVILLE, KY 41056  
Medicare Provider Number: 180019

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 911             | 12.1                | 8.2  | 1.3   | 16.0    | 13.1 | 1.3   | 20.0     | 16.7 | 1.4   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 37              | 40.5                | 21.1 | ----- | 40.5    | 24.2 | ----- | 45.9     | 26.8 | ----- |
| Congestive Heart Failure.....              | 53              | 15.1                | 13.2 | 5.2   | 18.9    | 21.6 | 6.3   | 28.3     | 27.6 | 6.2   |
| Pneumonia/Influenza.....                   | 53              | 17.0                | 11.6 | 5.6   | 24.5    | 16.3 | 7.0   | 28.3     | 19.7 | 7.3   |
| Chronic Obstructive Pulmonary Disease..... | 18              | 11.1                | 4.7  | ----- | 11.1    | 9.3  | ----- | 16.7     | 13.4 | ----- |
| Transient Cerebral Ischemia.....           | 21              | 0.0                 | 1.1  | ----- | 0.0     | 2.6  | ----- | 0.0      | 4.3  | ----- |
| Stroke.....                                | 26              | 34.6                | 15.7 | ----- | 38.5    | 23.5 | ----- | 42.3     | 28.0 | ----- |
| Hip Fracture.....                          | 38              | 2.6                 | 5.7  | ----- | 10.5    | 10.4 | ----- | 15.8     | 14.0 | ----- |
| Sepsis.....                                | 16              | 31.3                | 18.1 | ----- | 37.5    | 23.7 | ----- | 37.5     | 27.6 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 2               | 50.0                | 2.5  | ----- | 50.0    | 5.3  | ----- | 50.0     | 7.8  | ----- |
| Carotid Endarterectomy.....                | 3               | 0.0                 | 0.9  | ----- | 0.0     | 1.7  | ----- | 0.0      | 2.5  | ----- |
| Hip Replacement/Reconstruction.....        | 18              | 0.0                 | 2.8  | ----- | 5.6     | 5.7  | ----- | 5.6      | 8.2  | ----- |
| Open Reduction of Hip Fracture.....        | 24              | 4.2                 | 5.3  | ----- | 12.5    | 9.9  | ----- | 16.7     | 13.4 | ----- |
| Prostatectomy.....                         | 33              | 0.0                 | 0.9  | ----- | 0.0     | 2.2  | ----- | 3.0      | 3.9  | ----- |
| Cholecystectomy.....                       | 12              | 8.3                 | 1.3  | ----- | 16.7    | 2.4  | ----- | 25.0     | 3.2  | ----- |
| Hysterectomy.....                          | 6               | 0.0                 | 0.1  | ----- | 0.0     | 0.3  | ----- | 0.0      | 0.5  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MEADOWVIEW REGIONAL HOSPITAL

Medicare Provider Number: 180019

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.8 years  
Proportion female..... 57.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 98.8 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 8.1 %  
Admitted for emergency..... 23.6 %

### COMORBIDITIES:

Cancer..... 6.8 %  
Chronic cardiovascular disease..... 31.3 %  
Chronic liver disease..... 1.1 %  
Chronic renal disease..... 2.3 %  
Chronic pulmonary disease..... 22.2 %  
Cerebrovascular degeneration..... 4.2 %  
Diabetes mellitus..... 9.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 50.0%  
State ..... 30.3%  
Outside State ..... 19.7%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.7 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 111  
Occupancy Rate ..... 42.0 %  
Ownership/Control..... Private, For Profit  
Medicare Discharges ..... 39.5 %  
Case Mix Index (CMI) ..... 1.1861

### STAFFING:

Total Number of Physicians..... 40  
Percent of Physicians Board  
Certified Specialists..... 82.5 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 73  
Licensed Practical Nurses ..... 11

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... Yes  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



# MEMORIAL HOSPITAL INC

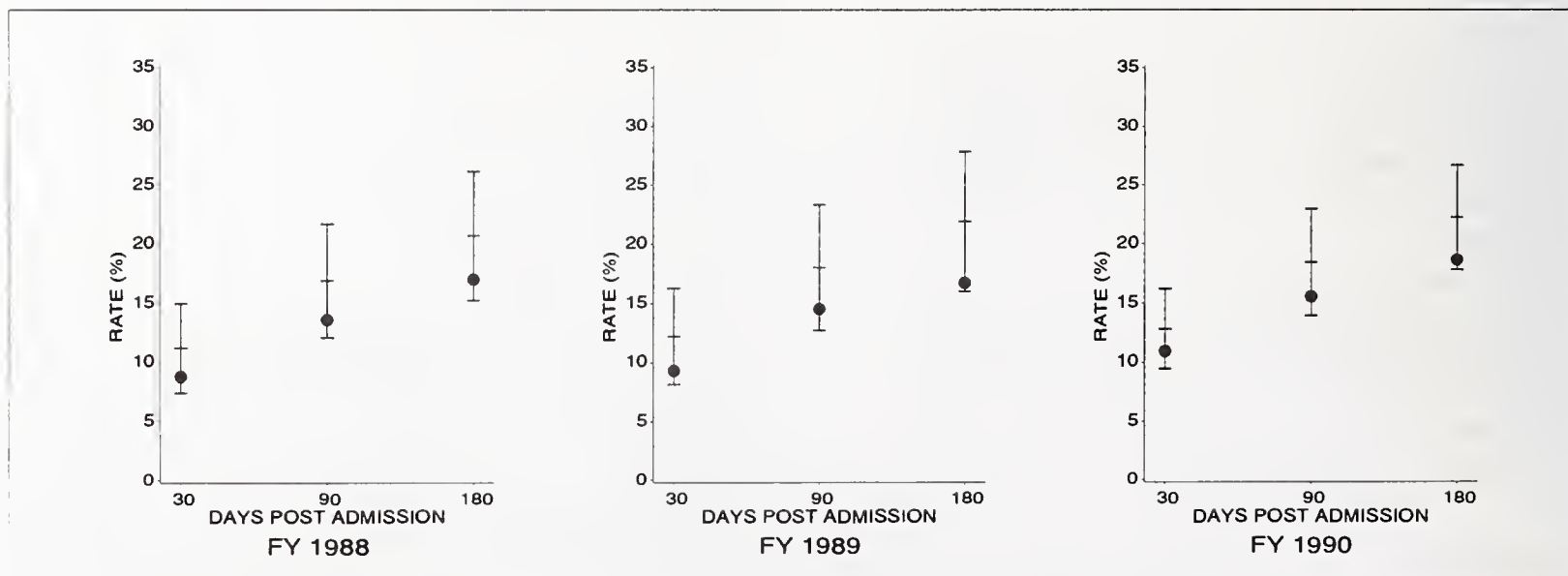
401 MEMORIAL DR  
MANCHESTER, KY 40962  
Medicare Provider Number: 180043

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 457                | 10.9                | 12.8 | 1.7   | 15.5    | 18.4 | 2.3   | 18.6     | 22.2 | 2.2   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 13                 | 53.8                | 34.9 | ----- | 53.8    | 40.6 | ----- | 53.8     | 44.4 | ----- |
| Congestive Heart Failure.....              | 19                 | 15.8                | 17.5 | ----- | 26.3    | 27.2 | ----- | 26.3     | 33.9 | ----- |
| Pneumonia/Influenza.....                   | 59                 | 16.9                | 19.3 | 5.3   | 20.3    | 26.8 | 6.5   | 22.0     | 31.3 | 7.4   |
| Chronic Obstructive Pulmonary Disease..... | 12                 | 0.0                 | 4.7  | ----- | 0.0     | 8.9  | ----- | 0.0      | 12.6 | ----- |
| Transient Cerebral Ischemia.....           | 15                 | 0.0                 | 1.8  | ----- | 0.0     | 4.3  | ----- | 6.7      | 6.9  | ----- |
| Stroke.....                                | 27                 | 11.1                | 22.1 | ----- | 14.8    | 28.0 | ----- | 18.5     | 31.7 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 9                  | 11.1                | 30.8 | ----- | 22.2    | 35.9 | ----- | 22.2     | 39.6 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 4                  | 25.0                | 2.1  | ----- | 25.0    | 4.8  | ----- | 25.0     | 7.2  | ----- |
| Hysterectomy.....                          | 1                  | 0.0                 | 0.2  | ----- | 0.0     | 0.4  | ----- | 0.0      | 0.7  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MEMORIAL HOSPITAL INC

Medicare Provider Number: 180043

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 73.9 years  
Proportion female..... 53.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 13.8 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 1.1 %  
Admitted for emergency..... 47.3 %

### COMORBIDITIES:

Cancer..... 6.8 %  
Chronic cardiovascular disease..... 53.4 %  
Chronic liver disease..... 0.2 %  
Chronic renal disease..... 0.9 %  
Chronic pulmonary disease..... 27.1 %  
Cerebrovascular degeneration..... 3.9 %  
Diabetes mellitus..... 5.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 81.5%  
State ..... 16.7%  
Outside State ..... 1.8%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.1 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 34  
Occupancy Rate ..... 100.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 30.8 %  
Case Mix Index (CMI) ..... 1.0107

### STAFFING:

Total Number of Physicians..... 10  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... (Not Available)  
Registered Nurses..... (Not Available)  
Licensed Practical Nurses..... (Not Available)

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

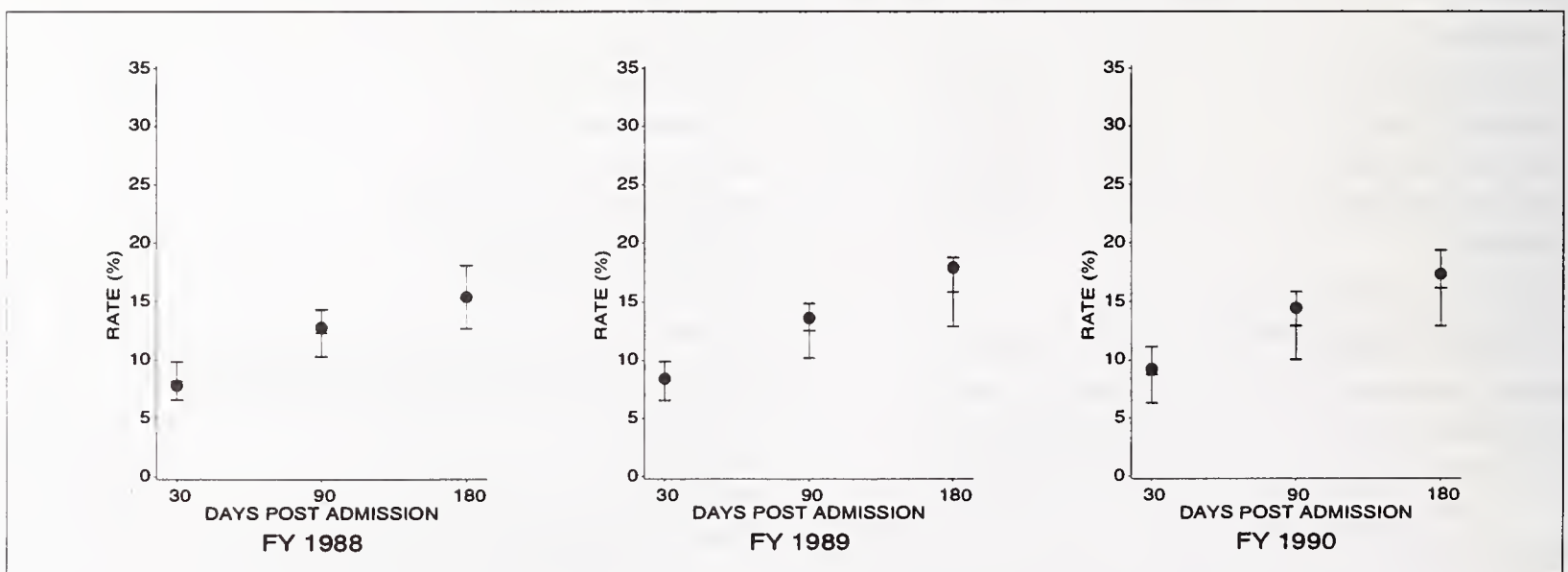
**MERCY HOSPITAL**  
1006 FORD AV  
OWENSBORO, KY 42301  
Medicare Provider Number: 180015

**FY 1990 MEDICARE HOSPITAL MORTALITY RATES**

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1442               | 9.2                 | 8.7  | 1.2   | 14.4    | 12.9 | 1.5   | 17.3     | 16.1 | 1.6   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 44                 | 38.6                | 32.7 | ----- | 40.9    | 35.3 | ----- | 45.5     | 38.2 | ----- |
| Congestive Heart Failure.....              | 60                 | 13.3                | 11.7 | 6.0   | 20.0    | 19.2 | 6.8   | 26.7     | 24.9 | 5.8   |
| Pneumonia/Influenza.....                   | 132                | 16.7                | 13.5 | 6.6   | 22.7    | 18.5 | 7.0   | 24.2     | 21.9 | 6.7   |
| Chronic Obstructive Pulmonary Disease..... | 39                 | 5.1                 | 7.3  | ----- | 10.3    | 12.7 | ----- | 15.4     | 16.8 | ----- |
| Transient Cerebral Ischemia.....           | 30                 | 0.0                 | 1.3  | ----- | 6.7     | 3.2  | ----- | 10.0     | 5.4  | ----- |
| Stroke.....                                | 60                 | 21.7                | 18.6 | 5.7   | 23.3    | 23.8 | 5.5   | 23.3     | 27.5 | 7.0   |
| Hip Fracture.....                          | 36                 | 13.9                | 6.4  | ----- | 22.2    | 11.5 | ----- | 22.2     | 14.9 | ----- |
| Sepsis.....                                | 23                 | 13.0                | 22.8 | ----- | 26.1    | 31.4 | ----- | 34.8     | 35.8 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 3                  | 0.0                 | 1.0  | ----- | 33.3    | 2.4  | ----- | 33.3     | 4.0  | ----- |
| Carotid Endarterectomy.....                | 8                  | 0.0                 | 1.6  | ----- | 12.5    | 3.4  | ----- | 12.5     | 5.2  | ----- |
| Hip Replacement/Reconstruction.....        | 13                 | 7.7                 | 4.7  | ----- | 15.4    | 8.6  | ----- | 15.4     | 11.4 | ----- |
| Open Reduction of Hip Fracture.....        | 8                  | 0.0                 | 4.2  | ----- | 12.5    | 7.4  | ----- | 12.5     | 9.7  | ----- |
| Prostatectomy.....                         | 104                | 0.0                 | 0.6  | 1.2   | 0.0     | 1.5  | 2.8   | 4.8      | 2.6  | 2.0   |
| Cholecystectomy.....                       | 20                 | 0.0                 | 1.7  | ----- | 5.0     | 2.8  | ----- | 5.0      | 3.6  | ----- |
| Hysterectomy.....                          | 18                 | 0.0                 | 0.3  | ----- | 5.6     | 0.7  | ----- | 5.6      | 1.2  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

**OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD)  
FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES**





**MERCY HOSPITAL**  
Medicare Provider Number: 180015

**FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES**

**DEMOGRAPHICS:**

Average age at admission..... 74.6 years  
Proportion female..... 57.1 %

**ADMISSION SOURCES/TYPES:**

Referred by personal or HMO physician..... 51.9 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 49.9 %  
Admitted for emergency..... 46.3 %

**COMORBIDITIES:**

Cancer..... 7.8 %  
Chronic cardiovascular disease..... 28.8 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 1.2 %  
Chronic pulmonary disease..... 14.4 %  
Cerebrovascular degeneration..... 4.9 %  
Diabetes mellitus..... 4.5 %

**ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\***

**ORIGIN OF MEDICARE PATIENT ADMISSION:**

County/City..... 77.4%  
State..... 16.3%  
Outside State..... 6.3%  
Total..... 100.0%

**MEDICARE AVERAGE LENGTH OF STAY:**

Hospital..... 7.5 Days  
State..... 8.2 Days  
National..... 8.6 Days

**HOSPITAL CHARACTERISTICS\***

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

**PROFILE:**

Total Beds..... 145  
Occupancy Rate..... 51.0 %  
Ownership/Control..... Church  
Medicare Discharges..... 45.7 %  
Case Mix Index (CMI)..... 1.1280

**STAFFING:**

Total Number of Physicians..... 138  
Percent of Physicians Board  
Certified Specialists..... 61.6 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 90  
Licensed Practical Nurses..... 26

\*\* Except for CMI

**SPECIALTY SERVICES:**

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

**OTHER SPECIALTY/HOSPITAL-BASED SERVICES:**

Alcohol/Drug..... No  
Rehabilitation..... Yes  
Psychiatric..... No  
Medicare Swing Beds..... No

\* Not used in calculating mortality rates

# METHODIST EVANGELICAL HOSPITAL

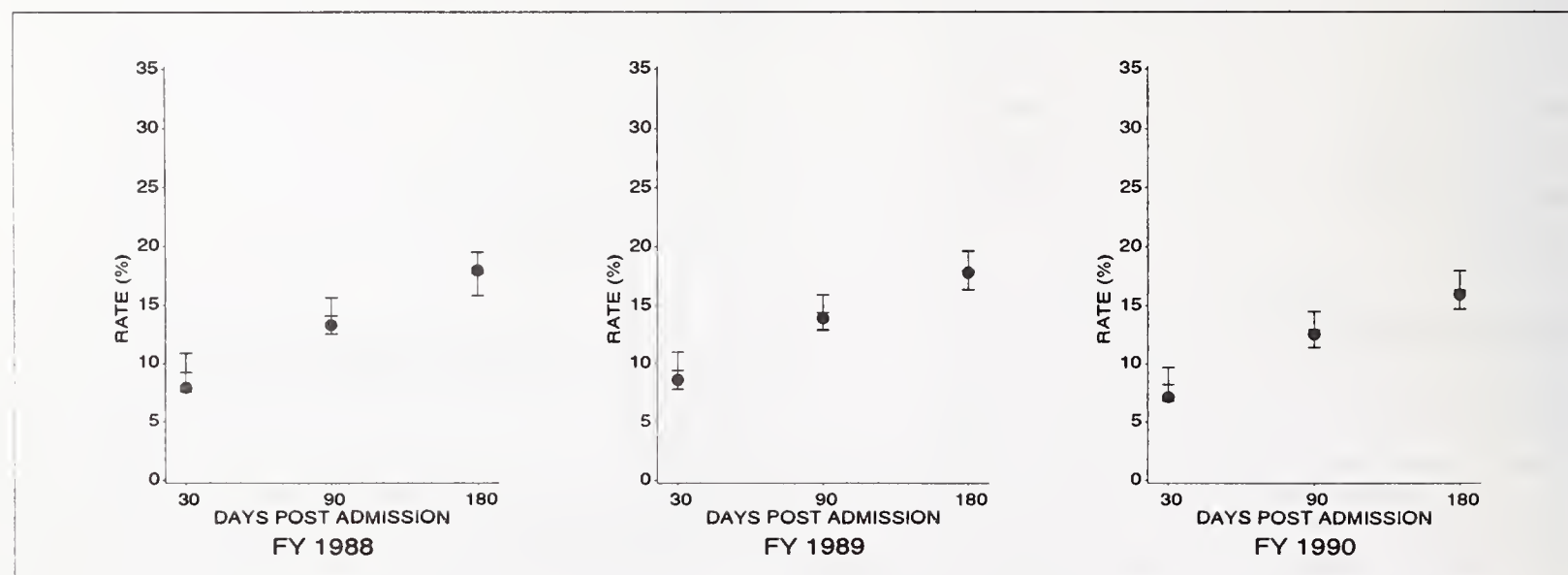
315 E BROADWAY  
LOUISVILLE, KY 40202  
Medicare Provider Number: 180081

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 2302            | 7.1                 | 8.2  | 0.7   | 12.5    | 12.9 | 0.8   | 15.9     | 16.3 | 0.8   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 45              | 6.7                 | 18.6 | ----- | 11.1    | 21.7 | ----- | 13.3     | 24.2 | ----- |
| Congestive Heart Failure.....              | 111             | 11.7                | 15.3 | 4.3   | 23.4    | 24.6 | 4.2   | 32.4     | 31.4 | 4.7   |
| Pneumonia/Influenza.....                   | 92              | 13.0                | 14.8 | 3.9   | 22.8    | 20.7 | 5.2   | 26.1     | 24.6 | 6.3   |
| Chronic Obstructive Pulmonary Disease..... | 8               | 0.0                 | 6.4  | ----- | 12.5    | 12.1 | ----- | 12.5     | 16.6 | ----- |
| Transient Cerebral Ischemia.....           | 42              | 0.0                 | 1.2  | ----- | 0.0     | 2.8  | ----- | 4.8      | 4.7  | ----- |
| Stroke.....                                | 85              | 21.2                | 19.8 | 5.3   | 28.2    | 27.4 | 5.0   | 34.1     | 31.6 | 5.5   |
| Hip Fracture.....                          | 70              | 2.9                 | 5.4  | 3.3   | 10.0    | 9.9  | 3.9   | 11.4     | 13.4 | 4.6   |
| Sepsis.....                                | 37              | 21.6                | 19.4 | ----- | 27.0    | 27.9 | ----- | 27.0     | 32.6 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 17              | 5.9                 | 3.4  | ----- | 5.9     | 6.7  | ----- | 5.9      | 9.6  | ----- |
| Carotid Endarterectomy.....                | 10              | 0.0                 | 0.8  | ----- | 0.0     | 1.6  | ----- | 0.0      | 2.4  | ----- |
| Hip Replacement/Reconstruction.....        | 90              | 1.1                 | 1.8  | 1.7   | 2.2     | 3.4  | 2.2   | 4.4      | 4.9  | 2.4   |
| Open Reduction of Hip Fracture.....        | 20              | 0.0                 | 4.9  | ----- | 15.0    | 9.1  | ----- | 15.0     | 12.6 | ----- |
| Prostatectomy.....                         | 53              | 3.8                 | 1.2  | 2.6   | 9.4     | 2.8  | 4.7   | 11.3     | 4.6  | 5.0   |
| Cholecystectomy.....                       | 28              | 0.0                 | 2.2  | ----- | 7.1     | 3.8  | ----- | 10.7     | 4.8  | ----- |
| Hysterectomy.....                          | 20              | 5.0                 | 1.3  | ----- | 5.0     | 2.9  | ----- | 5.0      | 4.5  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# METHODIST EVANGELICAL HOSPITAL

Medicare Provider Number: 180081

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 74.4 years  
Proportion female..... 64.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 66.0 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 45.3 %  
Admitted for emergency..... 35.8 %

### COMORBIDITIES:

Cancer..... 7.8 %  
Chronic cardiovascular disease..... 36.1 %  
Chronic liver disease..... 0.5 %  
Chronic renal disease..... 4.7 %  
Chronic pulmonary disease..... 15.5 %  
Cerebrovascular degeneration..... 4.6 %  
Diabetes mellitus..... 8.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 70.7%  
State..... 15.3%  
Outside State..... 14.0%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 8.7 Days  
State..... 8.2 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 207  
Occupancy Rate..... 65.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges..... 53.3 %  
Case Mix Index (CMI)..... 1.3524

### STAFFING:

Total Number of Physicians..... 195  
Percent of Physicians Board  
Certified Specialists..... 94.9 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 191  
Licensed Practical Nurses..... 46

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... Yes  
Comprehensive Geriatric..... Yes  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



# MIDDLESBORO APPALACHIAN REG HOSPITAL

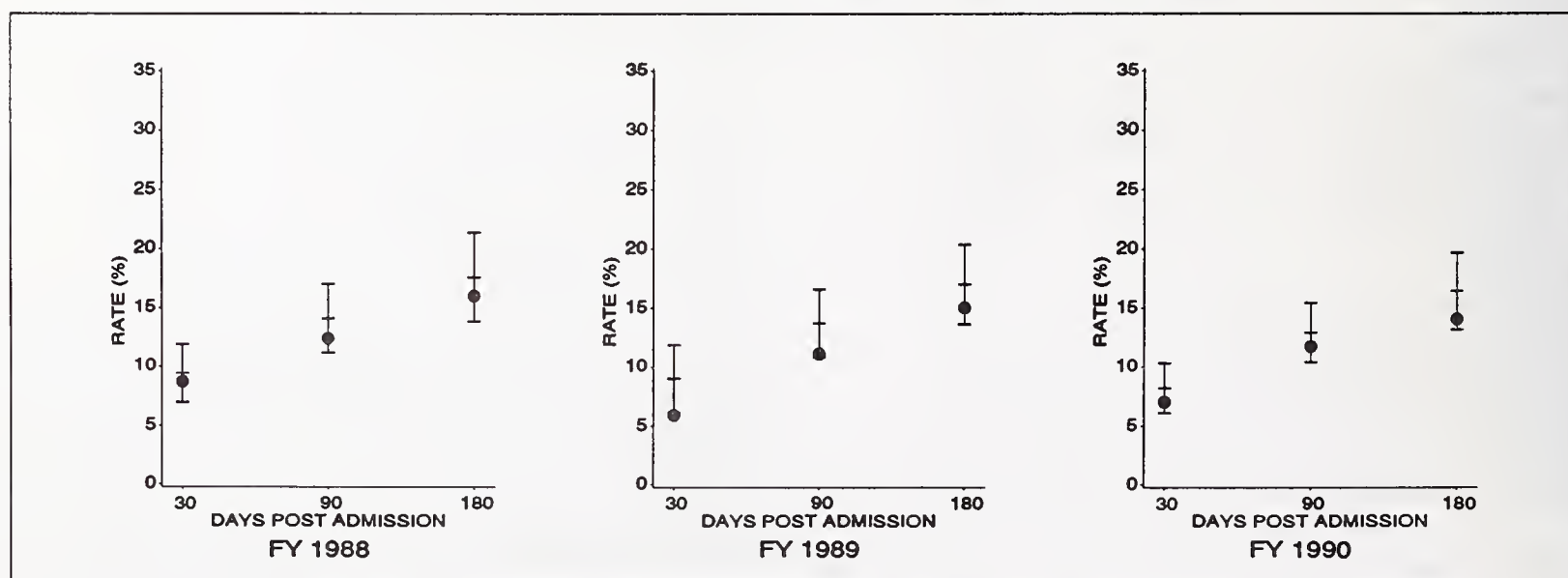
3600 W CUMBERLAND AV  
MIDDLESBORO, KY 40965  
Medicare Provider Number: 180020

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 949             | 7.0                 | 8.2  | 1.1   | 11.7    | 12.9 | 1.3   | 14.0     | 16.4 | 1.6   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 11              | 45.5                | 30.7 | ----- | 54.5    | 33.7 | ----- | 54.5     | 36.8 | ----- |
| Congestive Heart Failure.....              | 33              | 18.2                | 13.7 | ----- | 30.3    | 21.4 | ----- | 36.4     | 27.4 | ----- |
| Pneumonia/Influenza.....                   | 53              | 9.4                 | 18.7 | 6.5   | 30.2    | 26.5 | 7.6   | 35.8     | 31.3 | 7.0   |
| Chronic Obstructive Pulmonary Disease..... | 40              | 2.5                 | 4.9  | ----- | 7.5     | 9.5  | ----- | 7.5      | 13.5 | ----- |
| Transient Cerebral Ischemia.....           | 16              | 0.0                 | 1.5  | ----- | 0.0     | 3.6  | ----- | 0.0      | 6.0  | ----- |
| Stroke.....                                | 25              | 28.0                | 19.0 | ----- | 28.0    | 26.7 | ----- | 36.0     | 31.0 | ----- |
| Hip Fracture.....                          | 28              | 10.7                | 7.6  | ----- | 17.9    | 13.3 | ----- | 21.4     | 16.8 | ----- |
| Sepsis.....                                | 5               | 0.0                 | 14.5 | ----- | 20.0    | 20.1 | ----- | 20.0     | 23.6 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 12              | 16.7                | 3.7  | ----- | 16.7    | 6.9  | ----- | 16.7     | 9.2  | ----- |
| Open Reduction of Hip Fracture.....        | 13              | 0.0                 | 7.4  | ----- | 7.7     | 12.8 | ----- | 15.4     | 16.3 | ----- |
| Prostatectomy.....                         | 15              | 6.7                 | 1.0  | ----- | 6.7     | 2.5  | ----- | 6.7      | 4.4  | ----- |
| Cholecystectomy.....                       | 12              | 8.3                 | 1.1  | ----- | 8.3     | 1.9  | ----- | 8.3      | 2.5  | ----- |
| Hysterectomy.....                          | 5               | 0.0                 | 0.1  | ----- | 0.0     | 0.3  | ----- | 0.0      | 0.5  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MIDDLESBORO APPALACHIAN REG HOSPITAL

Medicare Provider Number: 180020

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 72.4 years  
Proportion female..... 58.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 39.5 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 2.8 %  
Admitted for emergency..... 90.4 %

### COMORBIDITIES:

Cancer..... 5.7 %  
Chronic cardiovascular disease..... 33.8 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 2.5 %  
Chronic pulmonary disease..... 24.7 %  
Cerebrovascular degeneration..... 5.5 %  
Diabetes mellitus..... 7.8 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 72.8%  
State ..... 8.4%  
Outside State ..... 18.8%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.9 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 96  
Occupancy Rate ..... 85.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... (Not Available)  
Case Mix Index (CMI) ..... 1.0200

### STAFFING:

Total Number of Physicians..... (Not Available)  
Percent of Physicians Board  
Certified Specialists ..... (Not Available)  
Medical Residents/Interns ..... (Not Available)  
Registered Nurses..... (Not Available)  
Licensed Practical Nurses ..... (Not Available)

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# MONROE COUNTY MEDICAL CENTER

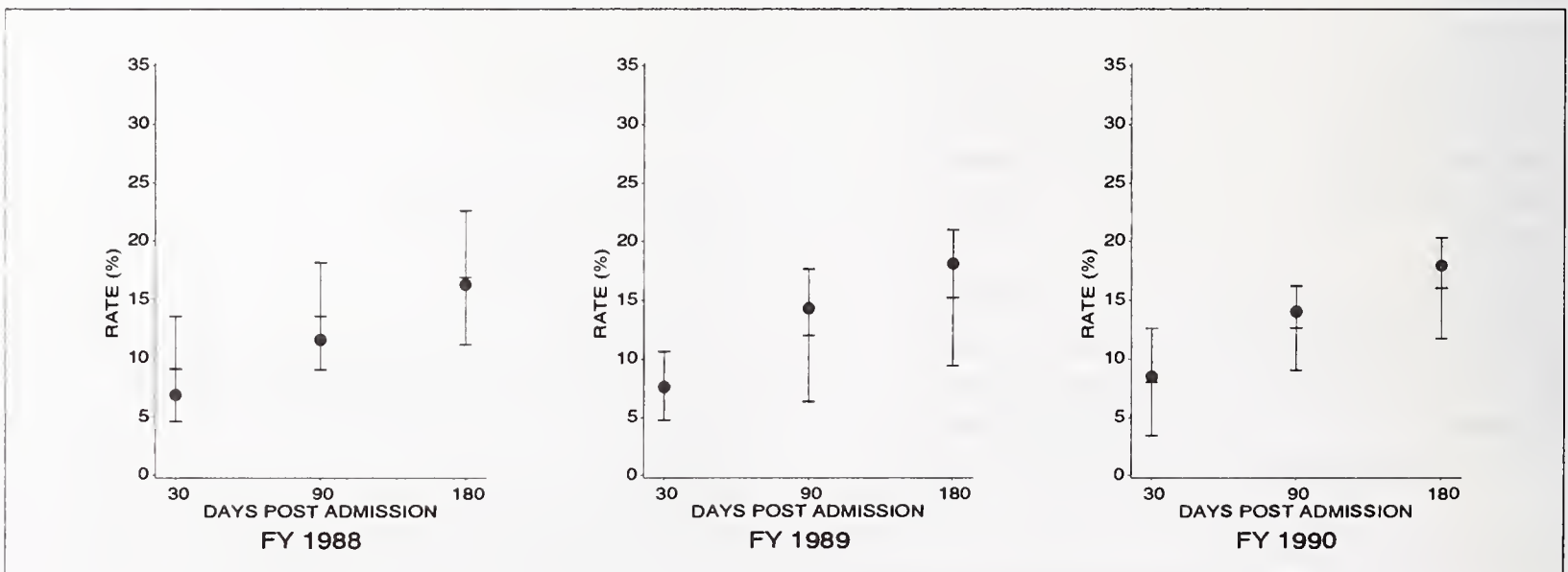
529 CAPP HARLAN RD  
TOMPKINSVILLE, KY 42167  
Medicare Provider Number: 180105

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 414             | 8.5                 | 8.0  | 2.3   | 14.0    | 12.6 | 1.8   | 17.9     | 16.0 | 2.1   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 8               | 37.5                | 27.4 | ----- | 37.5    | 30.9 | ----- | 37.5     | 33.6 | ----- |
| Congestive Heart Failure.....              | 36              | 8.3                 | 12.6 | ----- | 16.7    | 20.3 | ----- | 25.0     | 26.0 | ----- |
| Pneumonia/Influenza.....                   | 40              | 15.0                | 15.7 | ----- | 20.0    | 22.3 | ----- | 27.5     | 26.3 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 8               | 0.0                 | 2.7  | ----- | 0.0     | 5.5  | ----- | 0.0      | 8.0  | ----- |
| Transient Cerebral Ischemia.....           | 5               | 0.0                 | 1.0  | ----- | 0.0     | 2.4  | ----- | 0.0      | 4.1  | ----- |
| Stroke.....                                | 8               | 25.0                | 10.0 | ----- | 25.0    | 15.0 | ----- | 25.0     | 18.1 | ----- |
| Hip Fracture.....                          | 1               | 0.0                 | 3.6  | ----- | 0.0     | 7.6  | ----- | 0.0      | 10.3 | ----- |
| Sepsis.....                                | 3               | 100.0               | 33.6 | ----- | 100.0   | 46.0 | ----- | 100.0    | 52.2 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 5               | 0.0                 | 0.6  | ----- | 0.0     | 1.2  | ----- | 0.0      | 1.8  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# MONROE COUNTY MEDICAL CENTER

Medicare Provider Number: 180105

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 72.2 years  
Proportion female..... 58.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 68.4 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 66.2 %  
Admitted for emergency..... 28.5 %

### COMORBIDITIES:

Cancer..... 4.3 %  
Chronic cardiovascular disease..... 33.8 %  
Chronic liver disease..... 0.7 %  
Chronic renal disease..... 5.3 %  
Chronic pulmonary disease..... 19.3 %  
Cerebrovascular degeneration..... 4.8 %  
Diabetes mellitus..... 9.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 80.9%  
State..... 5.6%  
Outside State..... 13.5%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 6.5 Days  
State..... 8.2 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 49  
Occupancy Rate..... 49.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges..... 42.3 %  
Case Mix Index (CMI)..... 0.9288

### STAFFING:

Total Number of Physicians..... 6  
Percent of Physicians Board  
Certified Specialists..... 50.0 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 16  
Licensed Practical Nurses..... 15

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# MORGAN COUNTY APPALACHIAN REG HOSPITAL

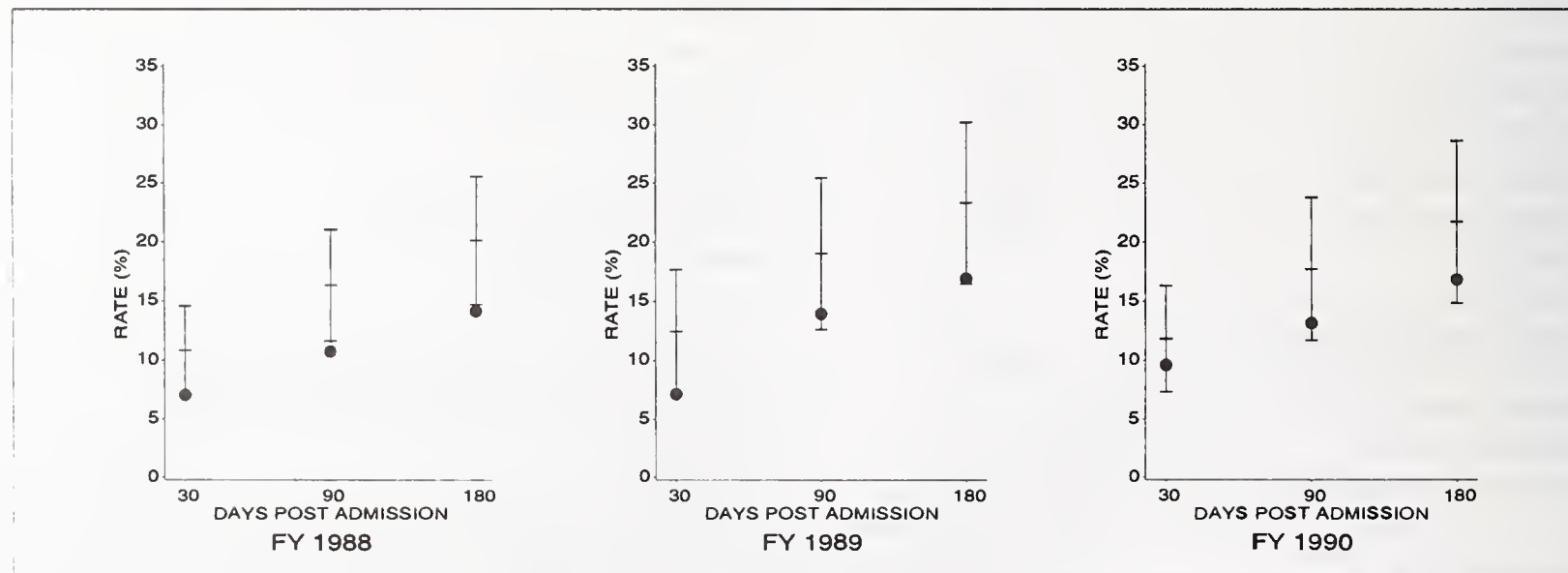
WELLS HILL RD, BOX 579  
WEST LIBERTY, KY 41472  
Medicare Provider Number: 180125

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 291                | 9.6                 | 11.8 | 2.3   | 13.1    | 17.7 | 3.0   | 16.8     | 21.7 | 3.5   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 1                  | 100.0               | 18.2 | ----- | 100.0   | 21.2 | ----- | 100.0    | 25.3 | ----- |
| Congestive Heart Failure.....              | 28                 | 25.0                | 17.7 | ----- | 35.7    | 27.5 | ----- | 46.4     | 34.1 | ----- |
| Pneumonia/Influenza.....                   | 52                 | 13.5                | 15.0 | 6.3   | 15.4    | 20.1 | 7.8   | 15.4     | 23.6 | 9.2   |
| Chronic Obstructive Pulmonary Disease..... | 17                 | 0.0                 | 4.6  | ----- | 0.0     | 8.3  | ----- | 0.0      | 11.5 | ----- |
| Transient Cerebral Ischemia.....           | 3                  | 0.0                 | 1.5  | ----- | 0.0     | 3.5  | ----- | 0.0      | 6.2  | ----- |
| Stroke.....                                | 4                  | 0.0                 | 19.6 | ----- | 25.0    | 25.0 | ----- | 25.0     | 29.1 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 4                  | 25.0                | 21.1 | ----- | 50.0    | 30.7 | ----- | 50.0     | 35.6 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 1                  | 0.0                 | 0.1  | ----- | 0.0     | 0.3  | ----- | 0.0      | 0.4  | ----- |
| Hysterectomy.....                          | 0                  |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MORGAN COUNTY APPALACHIAN REG HOSPITAL

Medicare Provider Number: 180125

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 73.6 years  
Proportion female..... 52.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 15.8 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 76.6 %

### COMORBIDITIES:

Cancer..... 2.7 %  
Chronic cardiovascular disease..... 38.5 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 2.1 %  
Chronic pulmonary disease..... 30.6 %  
Cerebrovascular degeneration..... 2.7 %  
Diabetes mellitus..... 8.6 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 56.5%  
State ..... 43.2%  
Outside State ..... 0.3%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.0 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 45  
Occupancy Rate ..... 66.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 53.3 %  
Case Mix Index (CMI) ..... 0.9950

### STAFFING:

Total Number of Physicians..... 7  
Percent of Physicians Board  
Certified Specialists..... 14.3 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 13  
Licensed Practical Nurses..... 9

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# MUHLENBERG COMMUNITY HOSPITAL

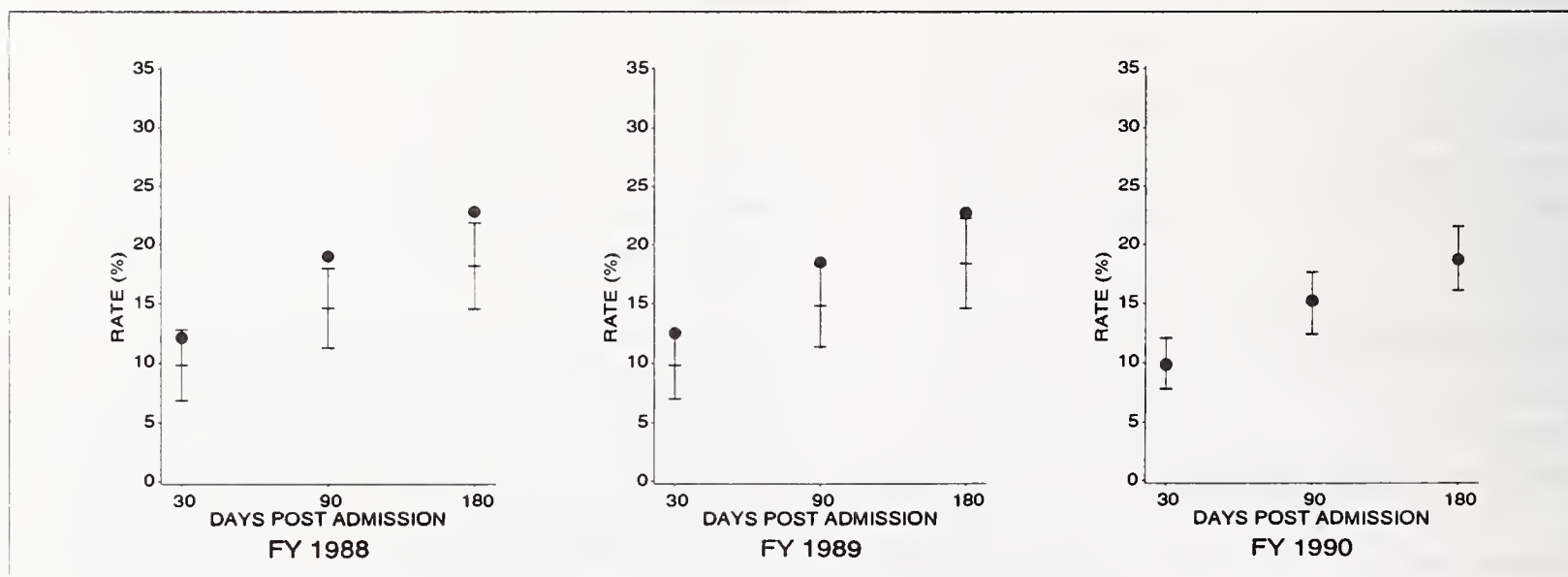
440 HOPKINSVILLE ST, BOX 387  
GREENVILLE, KY 42345  
Medicare Provider Number: 180004

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 823                | 9.8                 | 9.9  | 1.1   | 15.2    | 15.0 | 1.3   | 18.7     | 18.8 | 1.4   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 18                 | 44.4                | 24.1 | ----- | 44.4    | 27.8 | ----- | 44.4     | 31.1 | ----- |
| Congestive Heart Failure.....              | 57                 | 17.5                | 14.5 | 5.4   | 29.8    | 23.1 | 8.4   | 38.6     | 29.6 | 9.7   |
| Pneumonia/Influenza.....                   | 83                 | 14.5                | 15.4 | 4.1   | 22.9    | 21.4 | 4.7   | 24.1     | 25.3 | 4.9   |
| Chronic Obstructive Pulmonary Disease..... | 19                 | 5.3                 | 5.2  | ----- | 15.8    | 9.9  | ----- | 15.8     | 13.6 | ----- |
| Transient Cerebral Ischemia.....           | 26                 | 0.0                 | 2.3  | ----- | 3.8     | 5.1  | ----- | 7.7      | 8.3  | ----- |
| Stroke.....                                | 32                 | 31.3                | 23.6 | ----- | 34.4    | 30.3 | ----- | 37.5     | 34.4 | ----- |
| Hip Fracture.....                          | 3                  | 0.0                 | 2.7  | ----- | 0.0     | 5.0  | ----- | 0.0      | 7.1  | ----- |
| Sepsis.....                                | 7                  | 28.6                | 15.9 | ----- | 28.6    | 21.9 | ----- | 28.6     | 26.5 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 1                  | 0.0                 | 3.0  | ----- | 0.0     | 6.4  | ----- | 0.0      | 10.5 | ----- |
| Carotid Endarterectomy.....                | 1                  | 0.0                 | 5.2  | ----- | 0.0     | 9.2  | ----- | 0.0      | 12.4 | ----- |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 11                 | 0.0                 | 0.4  | ----- | 0.0     | 1.0  | ----- | 0.0      | 1.9  | ----- |
| Cholecystectomy.....                       | 23                 | 0.0                 | 4.0  | ----- | 8.7     | 7.6  | ----- | 8.7      | 10.3 | ----- |
| Hysterectomy.....                          | 5                  | 0.0                 | 1.8  | ----- | 0.0     | 4.0  | ----- | 0.0      | 5.8  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MUHLENBERG COMMUNITY HOSPITAL

Medicare Provider Number: 180004

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.5 years  
Proportion female..... 55.9 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 46.4 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 30.5 %  
Admitted for emergency..... 67.4 %

### COMORBIDITIES:

Cancer..... 6.9 %  
Chronic cardiovascular disease..... 39.2 %  
Chronic liver disease..... 1.1 %  
Chronic renal disease..... 1.6 %  
Chronic pulmonary disease..... 19.8 %  
Cerebrovascular degeneration..... 5.5 %  
Diabetes mellitus..... 10.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 86.6%  
State ..... 12.2%  
Outside State ..... 1.2%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.9 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 135  
Occupancy Rate ..... 63.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 42.8 %  
Case Mix Index (CMI) ..... 1.1448

### STAFFING:

Total Number of Physicians..... 28  
Percent of Physicians Board  
Certified Specialists..... 53.6 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 61  
Licensed Practical Nurses ..... 25

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# MURRAY-CALLOWAY COUNTY HOSPITAL

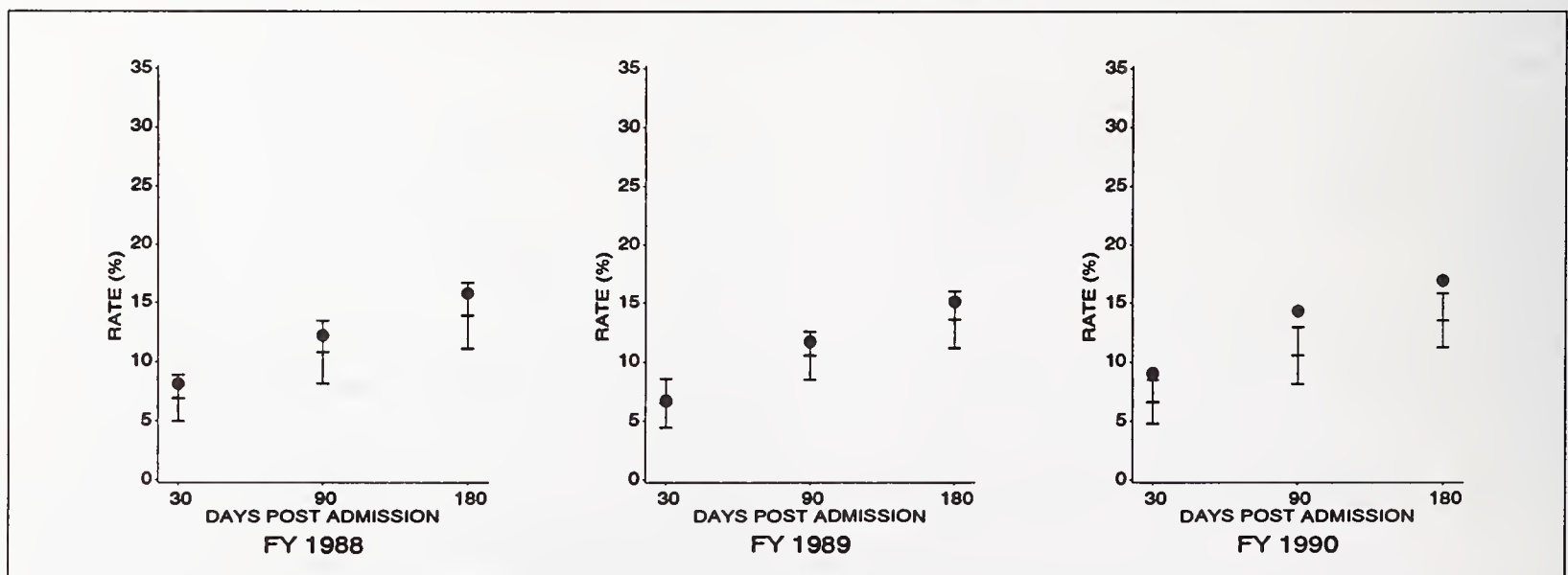
803 POPLAR ST  
MURRAY, KY 42071  
Medicare Provider Number: 180027

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1514            | 9.0                 | 6.6  | 0.9   | 14.3    | 10.5 | 1.2   | 16.9     | 13.5 | 1.2   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 38              | 47.4                | 20.6 | ----- | 52.6    | 23.9 | ----- | 52.6     | 26.7 | ----- |
| Congestive Heart Failure.....              | 73              | 17.8                | 13.4 | 7.5   | 28.8    | 21.9 | 9.2   | 35.6     | 28.1 | 10.6  |
| Pneumonia/Influenza.....                   | 84              | 14.3                | 12.4 | 4.1   | 17.9    | 17.8 | 4.2   | 19.0     | 21.5 | 4.6   |
| Chronic Obstructive Pulmonary Disease..... | 41              | 9.8                 | 5.3  | ----- | 17.1    | 10.0 | ----- | 19.5     | 13.9 | ----- |
| Transient Cerebral Ischemia.....           | 25              | 8.0                 | 2.0  | ----- | 12.0    | 4.4  | ----- | 20.0     | 7.2  | ----- |
| Stroke.....                                | 38              | 13.2                | 16.9 | ----- | 21.1    | 22.8 | ----- | 23.7     | 26.8 | ----- |
| Hip Fracture.....                          | 39              | 7.7                 | 5.0  | ----- | 20.5    | 9.3  | ----- | 23.1     | 12.4 | ----- |
| Sepsis.....                                | 6               | 50.0                | 21.9 | ----- | 50.0    | 28.1 | ----- | 50.0     | 31.9 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 20              | 5.0                 | 2.7  | ----- | 15.0    | 5.8  | ----- | 20.0     | 8.6  | ----- |
| Carotid Endarterectomy.....                | 6               | 0.0                 | 1.6  | ----- | 16.7    | 2.8  | ----- | 16.7     | 4.2  | ----- |
| Hip Replacement/Reconstruction.....        | 29              | 0.0                 | 2.1  | ----- | 10.3    | 4.2  | ----- | 10.3     | 6.1  | ----- |
| Open Reduction of Hip Fracture.....        | 4               | 50.0                | 3.9  | ----- | 50.0    | 7.2  | ----- | 50.0     | 9.3  | ----- |
| Prostatectomy.....                         | 64              | 3.1                 | 0.6  | 1.4   | 4.7     | 1.5  | 2.2   | 4.7      | 2.6  | 3.6   |
| Cholecystectomy.....                       | 32              | 3.1                 | 2.9  | ----- | 3.1     | 4.7  | ----- | 3.1      | 5.9  | ----- |
| Hysterectomy.....                          | 15              | 0.0                 | 0.6  | ----- | 0.0     | 1.2  | ----- | 0.0      | 1.9  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# MURRAY-CALLOWAY COUNTY HOSPITAL

Medicare Provider Number: 180027

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 74.5 years  
Proportion female..... 54.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 98.7 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 0.3 %

### COMORBIDITIES:

Cancer..... 5.8 %  
Chronic cardiovascular disease..... 30.1 %  
Chronic liver disease..... 0.5 %  
Chronic renal disease..... 1.1 %  
Chronic pulmonary disease..... 12.7 %  
Cerebrovascular degeneration..... 4.7 %  
Diabetes mellitus..... 6.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 68.7%  
State ..... 19.7%  
Outside State ..... 11.6%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.0 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 176  
Occupancy Rate ..... 73.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 47.3 %  
Case Mix Index (CMI) ..... 1.1338

### STAFFING:

Total Number of Physicians..... 44  
Percent of Physicians Board  
Certified Specialists ..... 70.5 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 93  
Licensed Practical Nurses ..... 44

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# NICHOLAS COUNTY HOSPITAL

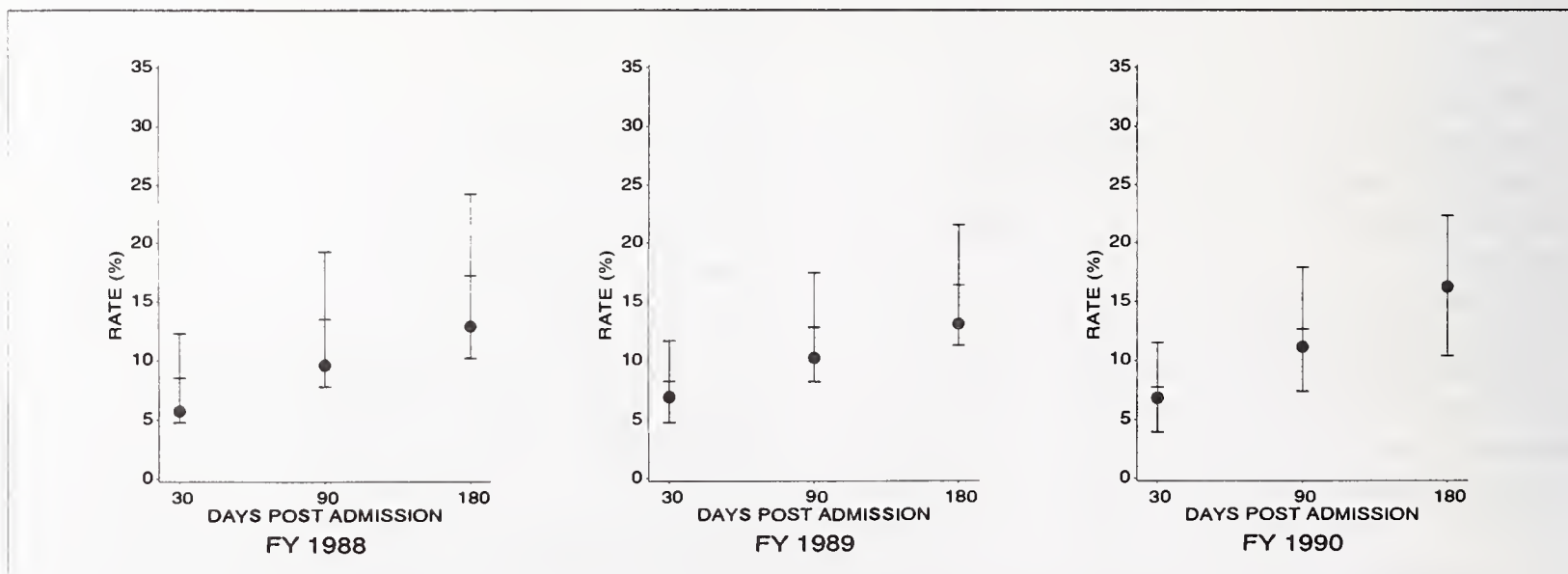
2323 CONCRETE RD  
CARLISLE, KY 40311  
Medicare Provider Number: 180059

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 234             | 6.8                 | 7.7  | 1.9   | 11.1    | 12.6 | 2.6   | 16.2     | 16.3 | 3.0   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 7               | 28.6                | 23.3 | ----- | 28.6    | 27.4 | ----- | 28.6     | 30.3 | ----- |
| Congestive Heart Failure.....              | 16              | 6.3                 | 14.4 | ----- | 12.5    | 23.6 | ----- | 12.5     | 30.0 | ----- |
| Pneumonia/Influenza.....                   | 14              | 7.1                 | 9.1  | ----- | 21.4    | 13.1 | ----- | 42.9     | 16.2 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 6               | 0.0                 | 5.7  | ----- | 0.0     | 10.7 | ----- | 0.0      | 15.8 | ----- |
| Transient Cerebral Ischemia.....           | 6               | 0.0                 | 1.8  | ----- | 16.7    | 4.1  | ----- | 16.7     | 6.8  | ----- |
| Stroke.....                                | 5               | 20.0                | 13.8 | ----- | 40.0    | 21.4 | ----- | 40.0     | 25.1 | ----- |
| Hip Fracture.....                          | 4               | 0.0                 | 3.7  | ----- | 0.0     | 7.5  | ----- | 0.0      | 10.6 | ----- |
| Sepsis.....                                | 1               | 0.0                 | 36.1 | ----- | 0.0     | 42.2 | ----- | 0.0      | 48.8 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 2               | 0.0                 | 3.2  | ----- | 0.0     | 6.1  | ----- | 0.0      | 8.9  | ----- |
| Open Reduction of Hip Fracture.....        | 2               | 0.0                 | 3.5  | ----- | 0.0     | 7.6  | ----- | 0.0      | 11.2 | ----- |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 3               | 0.0                 | 0.9  | ----- | 0.0     | 1.5  | ----- | 0.0      | 2.0  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# NICHOLAS COUNTY HOSPITAL

Medicare Provider Number: 180059

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.4 years  
Proportion female..... 59.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 29.5 %  
Transferred from skilled nursing facility..... 0.4 %  
Admitted for elective procedure..... 91.5 %  
Admitted for emergency..... 1.3 %

### COMORBIDITIES:

Cancer..... 6.0 %  
Chronic cardiovascular disease..... 48.7 %  
Chronic liver disease..... 0.4 %  
Chronic renal disease..... 3.0 %  
Chronic pulmonary disease..... 22.6 %  
Cerebrovascular degeneration..... 2.6 %  
Diabetes mellitus..... 15.8 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 69.1%  
State ..... 30.9%  
Outside State ..... 0.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.9 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 83  
Occupancy Rate ..... 88.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 43.0 %  
Case Mix Index (CMI) ..... 0.9381

### STAFFING:

Total Number of Physicians..... 4  
Percent of Physicians Board  
Certified Specialists ..... 25.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 9  
Licensed Practical Nurses ..... 7

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# NORTON HOSP/KOSAIR CHILDRENS HOSPITAL

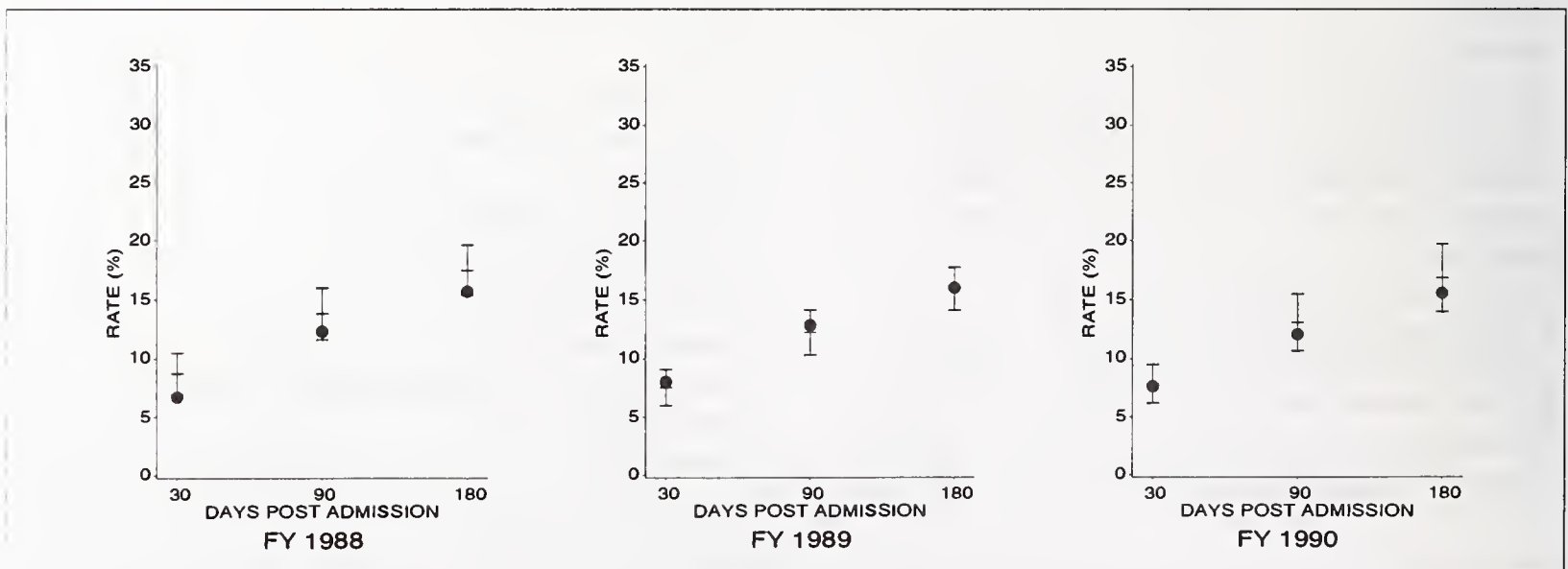
200 E CHESTNUT ST  
LOUISVILLE, KY 40202  
Medicare Provider Number: 180088

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1960            | 7.6                 | 7.8  | 0.8   | 12.0    | 13.0 | 1.2   | 15.5     | 16.8 | 1.4   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 31              | 29.0                | 25.6 | ----- | 29.0    | 28.4 | ----- | 29.0     | 31.1 | ----- |
| Congestive Heart Failure.....              | 56              | 8.9                 | 14.5 | 5.1   | 25.0    | 23.7 | 7.1   | 35.7     | 30.3 | 6.5   |
| Pneumonia/Influenza.....                   | 67              | 16.4                | 12.2 | 4.9   | 17.9    | 17.2 | 4.8   | 19.4     | 20.4 | 5.1   |
| Chronic Obstructive Pulmonary Disease..... | 9               | 0.0                 | 6.1  | ----- | 0.0     | 11.4 | ----- | 11.1     | 15.8 | ----- |
| Transient Cerebral Ischemia.....           | 19              | 0.0                 | 1.9  | ----- | 0.0     | 4.1  | ----- | 0.0      | 6.4  | ----- |
| Stroke.....                                | 42              | 14.3                | 18.5 | ----- | 19.0    | 24.9 | ----- | 19.0     | 28.2 | ----- |
| Hip Fracture.....                          | 15              | 13.3                | 6.0  | ----- | 26.7    | 10.8 | ----- | 26.7     | 13.7 | ----- |
| Sepsis.....                                | 21              | 19.0                | 24.0 | ----- | 28.6    | 31.9 | ----- | 33.3     | 36.1 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 63              | 0.0                 | 2.2  | 2.7   | 1.6     | 3.1  | 2.7   | 1.6      | 4.0  | 3.2   |
| Coronary Artery Bypass Graft.....          | 75              | 16.0                | 6.3  | 4.7   | 18.7    | 9.2  | 5.3   | 20.0     | 10.4 | 5.4   |
| Initial Pacemaker Insertion.....           | 13              | 0.0                 | 2.9  | ----- | 15.4    | 6.6  | ----- | 15.4     | 10.3 | ----- |
| Carotid Endarterectomy.....                | 13              | 0.0                 | 1.2  | ----- | 0.0     | 2.2  | ----- | 0.0      | 3.2  | ----- |
| Hip Replacement/Reconstruction.....        | 15              | 6.7                 | 3.3  | ----- | 13.3    | 6.4  | ----- | 13.3     | 8.5  | ----- |
| Open Reduction of Hip Fracture.....        | 6               | 16.7                | 4.9  | ----- | 16.7    | 8.6  | ----- | 16.7     | 11.0 | ----- |
| Prostatectomy.....                         | 28              | 0.0                 | 1.3  | ----- | 0.0     | 3.1  | ----- | 14.3     | 5.2  | ----- |
| Cholecystectomy.....                       | 51              | 5.9                 | 2.4  | 3.7   | 5.9     | 4.8  | 3.1   | 5.9      | 6.7  | 3.6   |
| Hysterectomy.....                          | 53              | 0.0                 | 1.3  | 2.0   | 0.0     | 2.9  | 3.6   | 5.7      | 4.4  | 3.2   |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# NORTON HOSP/KOSAIR CHILDRENS HOSPITAL

Medicare Provider Number: 180088

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 70.9 years  
Proportion female..... 60.4 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 90.3 %  
Transferred from skilled nursing facility..... 0.1 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 37.9 %

### COMORBIDITIES:

Cancer..... 11.7 %  
Chronic cardiovascular disease..... 35.5 %  
Chronic liver disease..... 0.9 %  
Chronic renal disease..... 3.6 %  
Chronic pulmonary disease..... 12.2 %  
Cerebrovascular degeneration..... 3.5 %  
Diabetes mellitus..... 8.5 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 59.2%  
State ..... 21.3%  
Outside State ..... 19.5%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 9.6 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 562  
Occupancy Rate ..... 73.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 14.7 %  
Case Mix Index (CMI) ..... 1.5530

### STAFFING:

Total Number of Physicians..... 420  
Percent of Physicians Board  
Certified Specialists ..... 78.3 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 654  
Licensed Practical Nurses ..... 20

### SPECIALTY SERVICES:

Burn Unit ..... Yes  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... Yes

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# OHIO COUNTY HOSPITAL

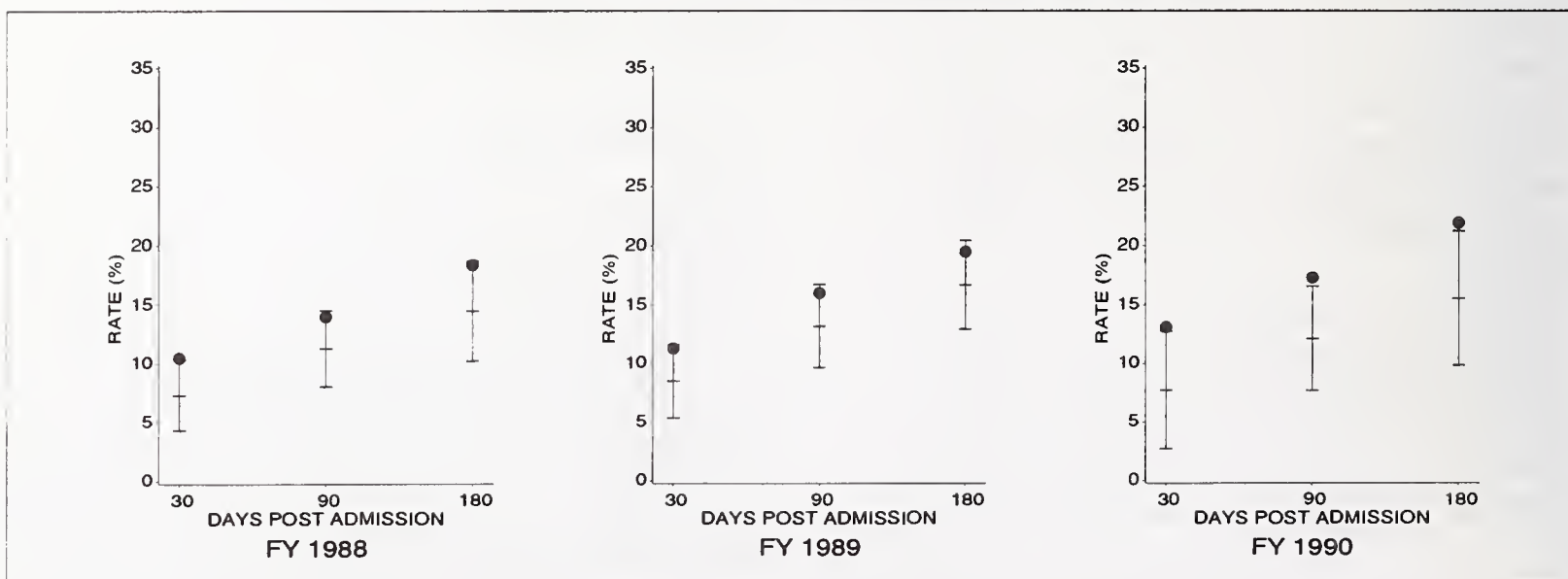
1211 MAIN ST, BOX 126  
HARTFORD, KY 42347  
Medicare Provider Number: 180041

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 498             | 13.1                | 7.7  | 2.5   | 17.3    | 12.1 | 2.2   | 21.9     | 15.5 | 2.9   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 5               | 60.0                | 35.5 | ----- | 60.0    | 41.2 | ----- | 60.0     | 44.8 | ----- |
| Congestive Heart Failure.....              | 19              | 26.3                | 13.4 | ----- | 36.8    | 22.0 | ----- | 42.1     | 29.6 | ----- |
| Pneumonia/Influenza.....                   | 53              | 11.3                | 12.8 | 4.6   | 20.8    | 17.7 | 5.9   | 28.3     | 21.5 | 7.4   |
| Chronic Obstructive Pulmonary Disease..... | 14              | 21.4                | 6.9  | ----- | 21.4    | 13.7 | ----- | 35.7     | 19.3 | ----- |
| Transient Cerebral Ischemia.....           | 5               | 0.0                 | 2.1  | ----- | 0.0     | 4.7  | ----- | 0.0      | 7.8  | ----- |
| Stroke.....                                | 7               | 42.9                | 16.2 | ----- | 57.1    | 21.5 | ----- | 57.1     | 24.8 | ----- |
| Hip Fracture.....                          | 10              | 20.0                | 9.1  | ----- | 20.0    | 16.5 | ----- | 20.0     | 21.5 | ----- |
| Sepsis.....                                | 3               | 0.0                 | 10.4 | ----- | 0.0     | 14.2 | ----- | 0.0      | 17.6 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 5               | 20.0                | 3.2  | ----- | 20.0    | 6.1  | ----- | 20.0     | 8.6  | ----- |
| Open Reduction of Hip Fracture.....        | 4               | 0.0                 | 10.1 | ----- | 0.0     | 18.0 | ----- | 0.0      | 23.6 | ----- |
| Prostatectomy.....                         | 12              | 0.0                 | 0.6  | ----- | 0.0     | 1.2  | ----- | 16.7     | 2.2  | ----- |
| Cholecystectomy.....                       | 10              | 20.0                | 1.1  | ----- | 20.0    | 2.1  | ----- | 20.0     | 3.0  | ----- |
| Hysterectomy.....                          | 4               | 0.0                 | 1.3  | ----- | 0.0     | 3.1  | ----- | 0.0      | 5.2  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# OHIO COUNTY HOSPITAL

Medicare Provider Number: 180041

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.5 years  
Proportion female..... 60.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 96.4 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 17.2 %  
Admitted for emergency..... 57.1 %

### COMORBIDITIES:

Cancer..... 4.8 %  
Chronic cardiovascular disease..... 39.3 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 2.4 %  
Chronic pulmonary disease..... 28.1 %  
Cerebrovascular degeneration..... 3.8 %  
Diabetes mellitus..... 13.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 86.7%  
State ..... 11.4%  
Outside State ..... 1.9%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.7 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 54  
Occupancy Rate ..... 38.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 49.6 %  
Case Mix Index (CMI) ..... 1.0967

### STAFFING:

Total Number of Physicians..... 26  
Percent of Physicians Board  
Certified Specialists ..... (Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 42  
Licensed Practical Nurses ..... 12

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... No  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# OUR LADY OF BELLEFONTE HOSPITAL

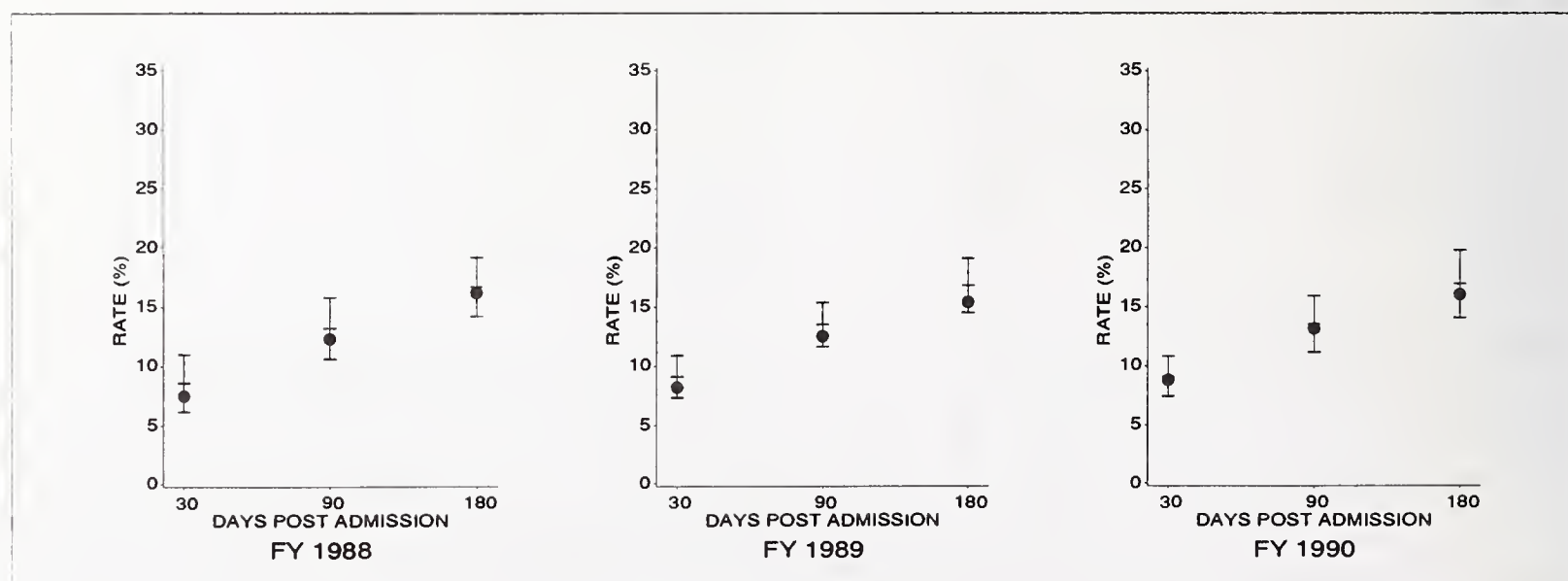
ST CHRISTOPHER DR  
ASHLAND, KY 41101  
Medicare Provider Number: 180036

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1562            | 8.8                 | 9.1  | 0.8   | 13.1    | 13.5 | 1.2   | 16.0     | 16.9 | 1.4   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 47              | 27.7                | 28.3 | ----- | 34.0    | 31.1 | ----- | 36.2     | 33.6 | ----- |
| Congestive Heart Failure.....              | 82              | 13.4                | 14.2 | 3.9   | 23.2    | 23.1 | 4.7   | 25.6     | 29.5 | 6.1   |
| Pneumonia/Influenza.....                   | 103             | 13.6                | 15.3 | 3.7   | 25.2    | 20.9 | 5.0   | 26.2     | 24.8 | 4.3   |
| Chronic Obstructive Pulmonary Disease..... | 43              | 2.3                 | 3.8  | ----- | 4.7     | 7.7  | ----- | 4.7      | 11.0 | ----- |
| Transient Cerebral Ischemia.....           | 27              | 3.7                 | 1.4  | ----- | 7.4     | 3.3  | ----- | 11.1     | 5.4  | ----- |
| Stroke.....                                | 49              | 14.3                | 14.1 | ----- | 16.3    | 20.3 | ----- | 16.3     | 23.8 | ----- |
| Hip Fracture.....                          | 32              | 12.5                | 4.7  | ----- | 15.6    | 8.6  | ----- | 25.0     | 11.5 | ----- |
| Sepsis.....                                | 17              | 23.5                | 30.7 | ----- | 35.3    | 38.2 | ----- | 47.1     | 43.0 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 10              | 0.0                 | 3.1  | ----- | 0.0     | 5.1  | ----- | 0.0      | 6.8  | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 16              | 0.0                 | 2.2  | ----- | 0.0     | 4.3  | ----- | 12.5     | 6.0  | ----- |
| Open Reduction of Hip Fracture.....        | 15              | 13.3                | 4.4  | ----- | 20.0    | 8.4  | ----- | 26.7     | 11.5 | ----- |
| Prostatectomy.....                         | 37              | 0.0                 | 0.8  | ----- | 0.0     | 1.8  | ----- | 2.7      | 3.1  | ----- |
| Cholecystectomy.....                       | 27              | 3.7                 | 4.8  | ----- | 7.4     | 9.1  | ----- | 14.8     | 12.3 | ----- |
| Hysterectomy.....                          | 1               | 0.0                 | 2.5  | ----- | 0.0     | 4.0  | ----- | 0.0      | 6.0  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# OUR LADY OF BELLEFONTE HOSPITAL

Medicare Provider Number: 180036

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 71.7 years  
Proportion female..... 53.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 44.0 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 34.4 %  
Admitted for emergency..... 63.4 %

### COMORBIDITIES:

Cancer..... 8.5 %  
Chronic cardiovascular disease..... 32.1 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 4.1 %  
Chronic pulmonary disease..... 17.0 %  
Cerebrovascular degeneration..... 3.6 %  
Diabetes mellitus..... 7.4 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 29.2%  
State ..... 48.8%  
Outside State ..... 22.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.5 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 170  
Occupancy Rate ..... 74.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 39.6 %  
Case Mix Index (CMI) ..... 1.0724

### STAFFING:

Total Number of Physicians..... 109  
Percent of Physicians Board  
Certified Specialists..... 55.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 131  
Licensed Practical Nurses ..... 29

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



# OUR LADY OF THE WAY HOSPITAL

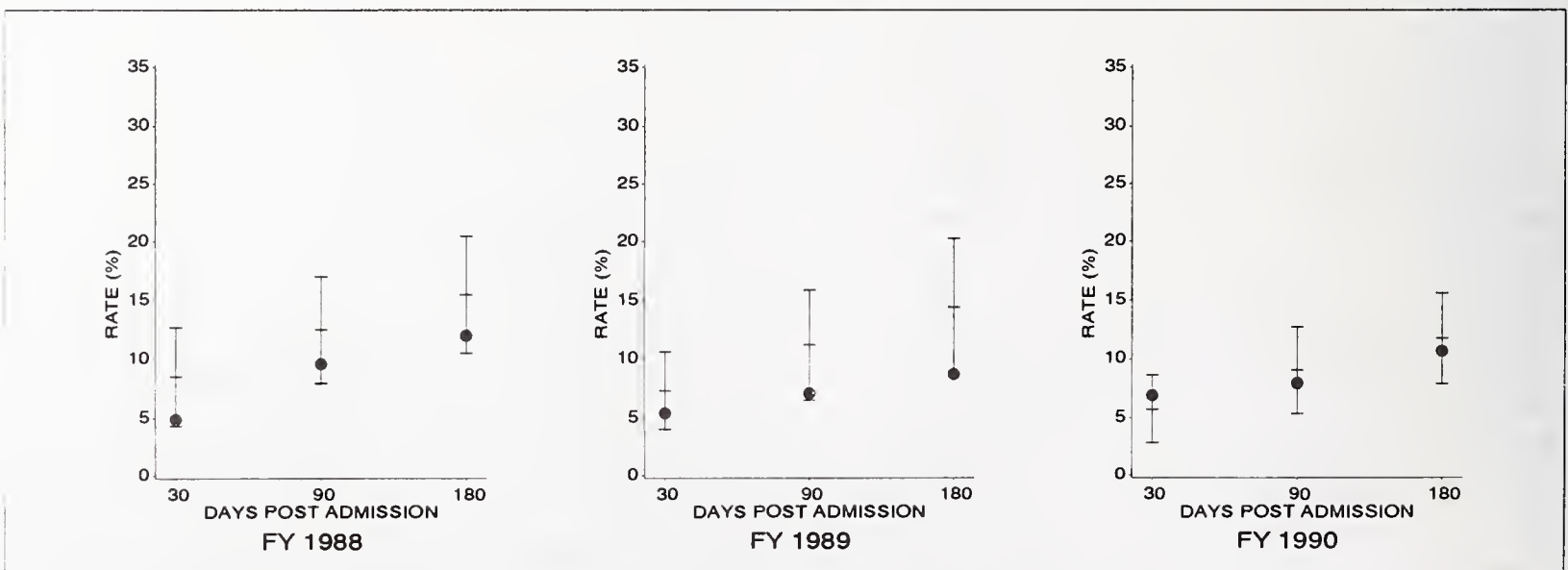
MAIN ST BOX 910  
MARTIN, KY 41649  
Medicare Provider Number: 180032

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 303             | 6.9                 | 5.7  | 1.4   | 7.9     | 9.0  | 1.8   | 10.6     | 11.7 | 1.9   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 7               | 28.6                | 23.8 | ----- | 28.6    | 26.9 | ----- | 28.6     | 30.7 | ----- |
| Congestive Heart Failure.....              | 26              | 11.5                | 11.7 | ----- | 11.5    | 19.8 | ----- | 19.2     | 26.1 | ----- |
| Pneumonia/Influenza.....                   | 34              | 14.7                | 9.6  | ----- | 14.7    | 13.7 | ----- | 14.7     | 16.5 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 9               | 0.0                 | 2.5  | ----- | 0.0     | 5.4  | ----- | 0.0      | 8.3  | ----- |
| Transient Cerebral Ischemia.....           | 6               | 0.0                 | 1.3  | ----- | 0.0     | 3.7  | ----- | 0.0      | 6.8  | ----- |
| Stroke.....                                | 13              | 23.1                | 11.8 | ----- | 30.8    | 17.8 | ----- | 30.8     | 21.6 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 0               |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 1               | 0.0                 | 0.1  | ----- | 0.0     | 0.3  | ----- | 0.0      | 0.4  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



## OUR LADY OF THE WAY HOSPITAL

Medicare Provider Number: 180032

### FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

#### DEMOGRAPHICS:

Average age at admission..... 68.8 years  
Proportion female..... 49.2 %

#### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 93.7 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 93.1 %  
Admitted for emergency..... 0.3 %

#### COMORBIDITIES:

Cancer..... 2.6 %  
Chronic cardiovascular disease..... 33.7 %  
Chronic liver disease..... 0.7 %  
Chronic renal disease..... 2.0 %  
Chronic pulmonary disease..... 27.4 %  
Cerebrovascular degeneration..... 1.7 %  
Diabetes mellitus..... 14.2 %

### ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

#### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 87.2%  
State ..... 11.6%  
Outside State ..... 1.2%  
Total ..... 100.0%

#### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.7 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

### HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

#### PROFILE:

Total Beds ..... 35  
Occupancy Rate ..... 71.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 30.1 %  
Case Mix Index (CMI) ..... 0.9156

#### STAFFING:

Total Number of Physicians..... 11  
Percent of Physicians Board  
Certified Specialists ..... 63.6 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 30  
Licensed Practical Nurses ..... 23

#### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

#### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# OWEN COUNTY MEMORIAL HOSPITAL

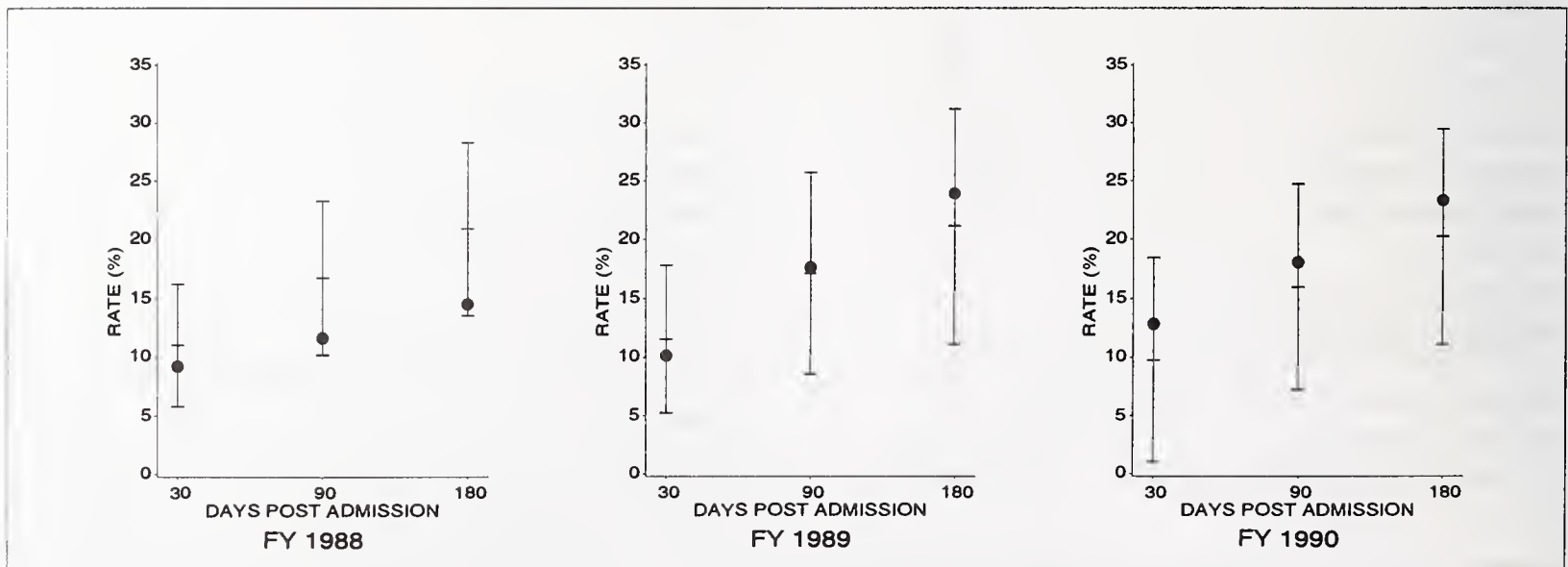
330 ROLAND AV  
OWENTON, KY 40359  
Medicare Provider Number: 180065

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 133             | 12.8                | 9.7  | 4.4   | 18.0    | 15.9 | 4.4   | 23.3     | 20.2 | 4.6   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 3               | 33.3                | 15.4 | ----- | 33.3    | 21.0 | ----- | 33.3     | 25.5 | ----- |
| Congestive Heart Failure.....              | 11              | 18.2                | 14.8 | ----- | 27.3    | 23.9 | ----- | 36.4     | 29.6 | ----- |
| Pneumonia/Influenza.....                   | 16              | 12.5                | 11.8 | ----- | 18.8    | 16.8 | ----- | 18.8     | 20.2 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 5               | 20.0                | 9.4  | ----- | 20.0    | 16.7 | ----- | 20.0     | 22.0 | ----- |
| Transient Cerebral Ischemia.....           | 5               | 0.0                 | 2.1  | ----- | 0.0     | 4.9  | ----- | 0.0      | 8.0  | ----- |
| Stroke.....                                | 4               | 25.0                | 15.8 | ----- | 25.0    | 22.8 | ----- | 25.0     | 27.1 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 1               | 0.0                 | 25.4 | ----- | 0.0     | 29.3 | ----- | 0.0      | 34.7 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 0               |                     |      |       |         |      |       |          |      |       |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# OWEN COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 180065

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.9 years  
Proportion female..... 59.4 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 27.1 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 0.0 %

### COMORBIDITIES:

Cancer..... 6.8 %  
Chronic cardiovascular disease..... 57.1 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 0.8 %  
Chronic pulmonary disease..... 17.3 %  
Cerebrovascular degeneration..... 5.3 %  
Diabetes mellitus..... 9.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 73.8%  
State ..... 25.4%  
Outside State ..... 0.8%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 4.6 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 70  
Occupancy Rate ..... 45.0 %  
Ownership/Control..... Private, For Profit  
Medicare Discharges ..... 67.3 %  
Case Mix Index (CMI) ..... 0.9492

### STAFFING:

Total Number of Physicians..... 3  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 6  
Licensed Practical Nurses ..... 4

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# OWENSBORO-DAVISS COUNTY HOSPITAL

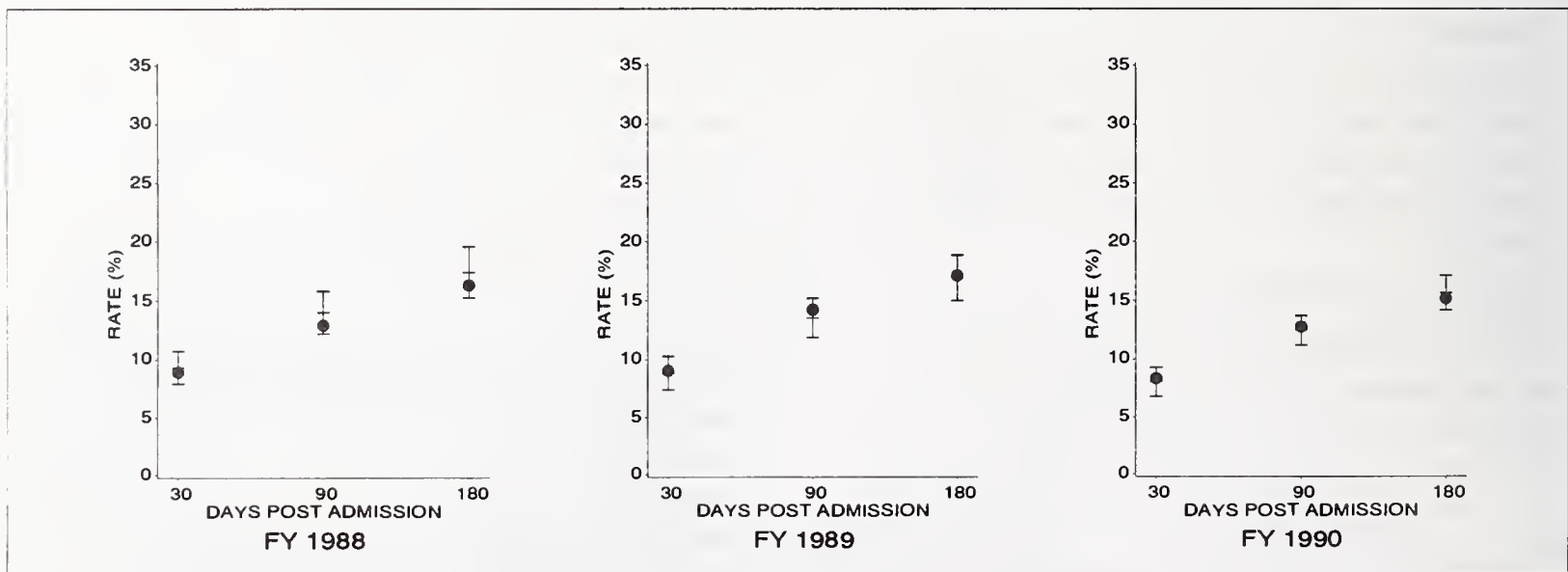
811 E PARRISH AVE, BOX 2799  
OWENSBORO, KY 42301  
Medicare Provider Number: 180038

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|-----------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                 | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                 | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 2843            | 8.3                 | 8.0  | 0.6  | 12.7    | 12.4 | 0.6  | 15.1     | 15.6 | 0.7  |
| CONDITIONS:                                |                 |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 90              | 23.3                | 20.8 | 4.4  | 27.8    | 23.6 | 4.7  | 33.3     | 26.2 | 5.2  |
| Congestive Heart Failure.....              | 149             | 18.1                | 14.0 | 4.0  | 28.2    | 22.3 | 4.9  | 32.2     | 28.1 | 4.5  |
| Pneumonia/Influenza.....                   | 153             | 16.3                | 14.6 | 4.7  | 24.2    | 20.3 | 4.7  | 26.8     | 24.2 | 4.1  |
| Chronic Obstructive Pulmonary Disease..... | 28              | 7.1                 | 9.1  | ---- | 14.3    | 16.3 | ---- | 25.0     | 21.3 | ---- |
| Transient Cerebral Ischemia.....           | 73              | 1.4                 | 1.8  | 1.6  | 6.8     | 3.9  | 3.4  | 9.6      | 6.2  | 4.1  |
| Stroke.....                                | 87              | 24.1                | 22.6 | 4.8  | 28.7    | 28.8 | 4.9  | 31.0     | 32.5 | 5.2  |
| Hip Fracture.....                          | 74              | 4.1                 | 5.7  | 3.1  | 9.5     | 10.2 | 4.1  | 10.8     | 13.5 | 4.6  |
| Sepsis.....                                | 21              | 14.3                | 20.6 | ---- | 19.0    | 29.4 | ---- | 23.8     | 34.0 | ---- |
| PROCEDURES:                                |                 |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 25              | 0.0                 | 3.1  | ---- | 4.0     | 4.0  | ---- | 4.0      | 5.0  | ---- |
| Coronary Artery Bypass Graft.....          | 47              | 10.6                | 6.1  | ---- | 10.6    | 8.1  | ---- | 10.6     | 9.0  | ---- |
| Initial Pacemaker Insertion.....           | 13              | 0.0                 | 3.4  | ---- | 0.0     | 6.1  | ---- | 0.0      | 8.7  | ---- |
| Carotid Endarterectomy.....                | 36              | 0.0                 | 1.3  | ---- | 2.8     | 2.6  | ---- | 2.8      | 4.0  | ---- |
| Hip Replacement/Reconstruction.....        | 52              | 1.9                 | 2.6  | 2.3  | 3.8     | 4.7  | 3.3  | 3.8      | 6.6  | 4.4  |
| Open Reduction of Hip Fracture.....        | 24              | 4.2                 | 5.7  | ---- | 12.5    | 10.8 | ---- | 16.7     | 14.6 | ---- |
| Prostatectomy.....                         | 68              | 1.5                 | 1.3  | 1.7  | 4.4     | 2.9  | 2.7  | 8.8      | 5.0  | 4.2  |
| Cholecystectomy.....                       | 36              | 2.8                 | 1.9  | ---- | 5.6     | 3.5  | ---- | 5.6      | 4.8  | ---- |
| Hysterectomy.....                          | 23              | 4.3                 | 1.3  | ---- | 4.3     | 2.2  | ---- | 4.3      | 3.0  | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# OWENSBORO-DAVISS COUNTY HOSPITAL

Medicare Provider Number: 180038

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 71.5 years  
Proportion female..... 53.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 37.6 %  
Transferred from skilled nursing facility..... 6.3 %  
Admitted for elective procedure..... 1.8 %  
Admitted for emergency..... 22.9 %

### COMORBIDITIES:

Cancer..... 6.4 %  
Chronic cardiovascular disease..... 35.5 %  
Chronic liver disease..... 0.9 %  
Chronic renal disease..... 3.0 %  
Chronic pulmonary disease..... 14.8 %  
Cerebrovascular degeneration..... 7.4 %  
Diabetes mellitus..... 7.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 62.5%  
State ..... 26.9%  
Outside State ..... 10.6%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 9.0 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 350  
Occupancy Rate ..... 67.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 32.8 %  
Case Mix Index (CMI) ..... 1.2412

### STAFFING:

Total Number of Physicians..... 142  
Percent of Physicians Board  
Certified Specialists ..... 63.4 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 306  
Licensed Practical Nurses ..... 91

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



# PARKWAY REGIONAL HOSPITAL

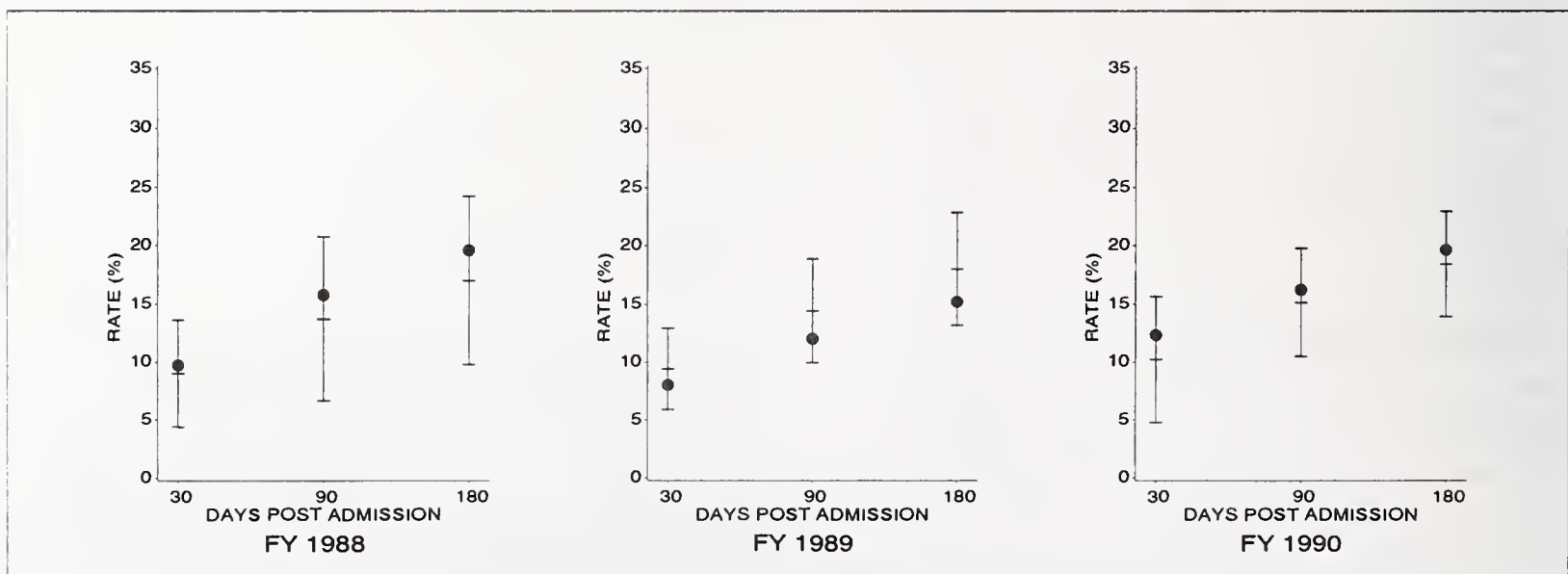
2000 HOLIDAY LANE  
FULTON, KY 42041  
Medicare Provider Number: 180117

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 358             | 12.3                | 10.2 | 2.7   | 16.2    | 15.1 | 2.3   | 19.6     | 18.4 | 2.3   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 19              | 31.6                | 25.8 | ----- | 31.6    | 29.2 | ----- | 31.6     | 32.2 | ----- |
| Congestive Heart Failure.....              | 14              | 28.6                | 17.1 | ----- | 42.9    | 26.6 | ----- | 42.9     | 32.6 | ----- |
| Pneumonia/Influenza.....                   | 56              | 7.1                 | 12.3 | 6.2   | 14.3    | 17.1 | 5.6   | 17.9     | 20.4 | 5.7   |
| Chronic Obstructive Pulmonary Disease..... | 7               | 0.0                 | 5.5  | ----- | 0.0     | 10.0 | ----- | 0.0      | 13.9 | ----- |
| Transient Cerebral Ischemia.....           | 2               | 0.0                 | 1.3  | ----- | 0.0     | 3.3  | ----- | 0.0      | 5.9  | ----- |
| Stroke.....                                | 12              | 41.7                | 21.2 | ----- | 50.0    | 27.0 | ----- | 58.3     | 30.4 | ----- |
| Hip Fracture.....                          | 10              | 40.0                | 7.4  | ----- | 40.0    | 13.7 | ----- | 40.0     | 18.2 | ----- |
| Sepsis.....                                | 1               | 100.0               | 26.0 | ----- | 100.0   | 32.1 | ----- | 100.0    | 34.7 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 3               | 0.0                 | 4.3  | ----- | 0.0     | 7.9  | ----- | 0.0      | 10.3 | ----- |
| Open Reduction of Hip Fracture.....        | 4               | 50.0                | 6.4  | ----- | 50.0    | 11.8 | ----- | 50.0     | 16.0 | ----- |
| Prostatectomy.....                         | 7               | 0.0                 | 2.0  | ----- | 0.0     | 4.8  | ----- | 0.0      | 8.1  | ----- |
| Cholecystectomy.....                       | 12              | 0.0                 | 2.0  | ----- | 0.0     | 3.6  | ----- | 8.3      | 4.9  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



## PARKWAY REGIONAL HOSPITAL

Medicare Provider Number: 180117

### FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

#### DEMOGRAPHICS:

|                               |            |
|-------------------------------|------------|
| Average age at admission..... | 75.0 years |
| Proportion female.....        | 59.8 %     |

#### ADMISSION SOURCES/TYPES:

|                                                |        |
|------------------------------------------------|--------|
| Referred by personal or HMO physician.....     | 96.4 % |
| Transferred from skilled nursing facility..... | 0.0 %  |
| Admitted for elective procedure.....           | 0.0 %  |
| Admitted for emergency.....                    | 0.6 %  |

#### COMORBIDITIES:

|                                     |        |
|-------------------------------------|--------|
| Cancer.....                         | 3.6 %  |
| Chronic cardiovascular disease..... | 50.0 % |
| Chronic liver disease.....          | 1.4 %  |
| Chronic renal disease.....          | 0.8 %  |
| Chronic pulmonary disease.....      | 20.9 % |
| Cerebrovascular degeneration.....   | 0.3 %  |
| Diabetes mellitus.....              | 8.4 %  |

### ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

#### ORIGIN OF MEDICARE PATIENT ADMISSION:

|                     |        |
|---------------------|--------|
| County/City .....   | 53.1%  |
| State .....         | 22.5%  |
| Outside State ..... | 24.4%  |
| Total .....         | 100.0% |

#### MEDICARE AVERAGE LENGTH OF STAY:

|                |          |
|----------------|----------|
| Hospital ..... | 6.0 Days |
| State .....    | 8.2 Days |
| National ..... | 8.6 Days |

### HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

#### PROFILE:

|                            |                     |
|----------------------------|---------------------|
| Total Beds .....           | 70                  |
| Occupancy Rate .....       | 25.0 %              |
| Ownership/Control.....     | Private, For Profit |
| Medicare Discharges .....  | 43.9 %              |
| Case Mix Index (CMI) ..... | 1.2501              |

#### STAFFING:

|                                                            |                 |
|------------------------------------------------------------|-----------------|
| Total Number of Physicians.....                            | (Not Available) |
| Percent of Physicians Board<br>Certified Specialists ..... | (Not Available) |
| Medical Residents/Interns .....                            | (Not Available) |
| Registered Nurses.....                                     | (Not Available) |
| Licensed Practical Nurses .....                            | (Not Available) |

\*\* Except for CMI

#### SPECIALTY SERVICES:

|                                       |    |
|---------------------------------------|----|
| Burn Unit .....                       | No |
| Cardiac Intensive Care .....          | No |
| Comprehensive Geriatric .....         | No |
| Hospice Care .....                    | No |
| Medical/Surgical Intensive Care ..... | No |
| Organ/Tissue Transplant .....         | No |
| Other Intensive Care .....            | No |
| Trauma Center .....                   | No |

#### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

|                           |     |
|---------------------------|-----|
| Alcohol/Drug .....        | Yes |
| Rehabilitation.....       | No  |
| Psychiatric .....         | No  |
| Medicare Swing Beds ..... | No  |

\* Not used in calculating mortality rates

# PATTIE A CLAY HOSPITAL

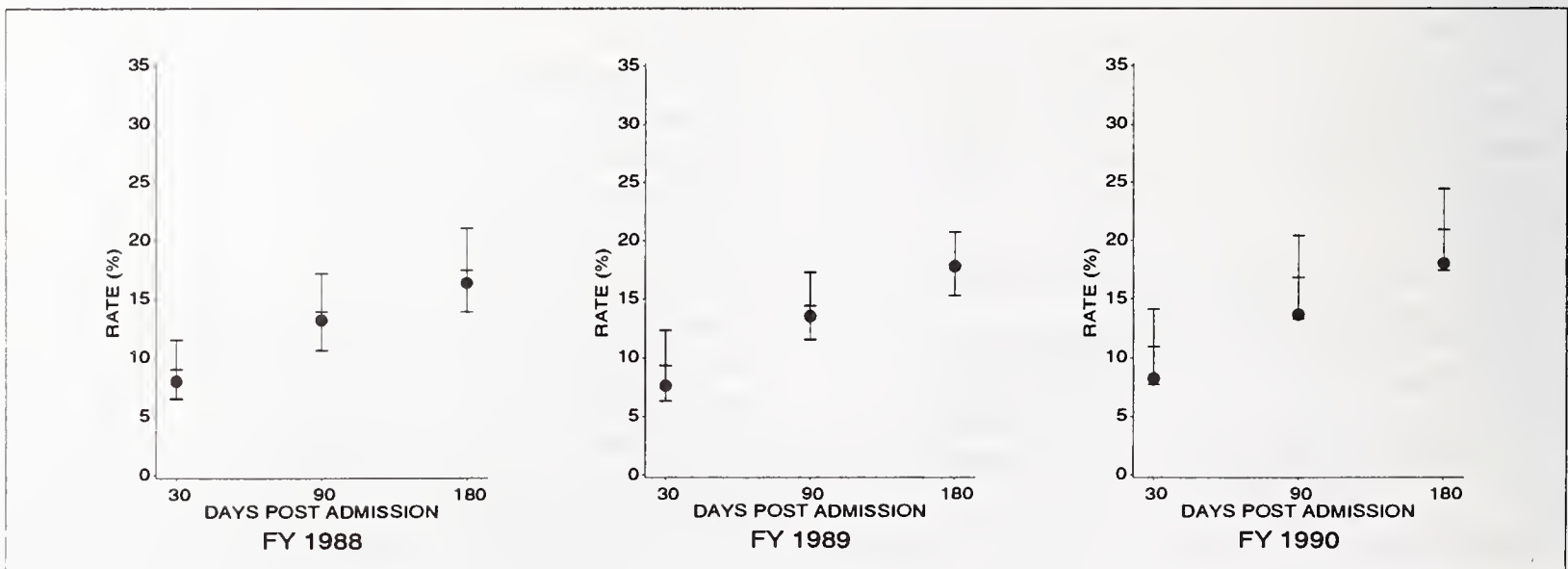
EASTERN BYPASS  
RICHMOND, KY 40475  
Medicare Provider Number: 180049

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|-----------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                 | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                 | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 845             | 8.2                 | 10.9 | 1.6  | 13.6    | 16.8 | 1.8  | 18.0     | 20.9 | 1.8  |
| CONDITIONS:                                |                 |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 29              | 20.7                | 26.7 | ---- | 24.1    | 29.8 | ---- | 27.6     | 32.9 | ---- |
| Congestive Heart Failure.....              | 33              | 0.0                 | 13.0 | ---- | 9.1     | 22.1 | ---- | 18.2     | 29.1 | ---- |
| Pneumonia/Influenza.....                   | 75              | 10.7                | 13.1 | 4.8  | 17.3    | 18.6 | 4.8  | 21.3     | 22.3 | 5.0  |
| Chronic Obstructive Pulmonary Disease..... | 10              | 0.0                 | 6.7  | ---- | 20.0    | 11.9 | ---- | 20.0     | 16.0 | ---- |
| Transient Cerebral Ischemia.....           | 13              | 0.0                 | 1.7  | ---- | 15.4    | 3.7  | ---- | 15.4     | 6.2  | ---- |
| Stroke.....                                | 34              | 17.6                | 16.2 | ---- | 17.6    | 23.4 | ---- | 17.6     | 27.4 | ---- |
| Hip Fracture.....                          | 33              | 3.0                 | 7.6  | ---- | 12.1    | 13.2 | ---- | 18.2     | 17.0 | ---- |
| Sepsis.....                                | 23              | 26.1                | 25.3 | ---- | 30.4    | 33.8 | ---- | 34.8     | 38.7 | ---- |
| PROCEDURES:                                |                 |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0               |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 0               |                     |      |      |         |      |      |          |      |      |
| Carotid Endarterectomy.....                | 0               |                     |      |      |         |      |      |          |      |      |
| Hip Replacement/Reconstruction.....        | 16              | 0.0                 | 6.5  | ---- | 6.3     | 11.7 | ---- | 6.3      | 15.1 | ---- |
| Open Reduction of Hip Fracture.....        | 19              | 5.3                 | 6.6  | ---- | 15.8    | 11.8 | ---- | 26.3     | 15.6 | ---- |
| Prostatectomy.....                         | 24              | 0.0                 | 1.0  | ---- | 0.0     | 2.5  | ---- | 0.0      | 4.3  | ---- |
| Cholecystectomy.....                       | 16              | 0.0                 | 3.0  | ---- | 12.5    | 6.1  | ---- | 12.5     | 8.6  | ---- |
| Hysterectomy.....                          | 7               | 0.0                 | 0.4  | ---- | 0.0     | 1.1  | ---- | 0.0      | 1.8  | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# PATTIE A CLAY HOSPITAL

Medicare Provider Number: 180049

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.3 years  
Proportion female..... 57.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 29.3 %  
Transferred from skilled nursing facility..... 5.7 %  
Admitted for elective procedure..... 8.0 %  
Admitted for emergency..... 7.0 %

### COMORBIDITIES:

Cancer..... 7.3 %  
Chronic cardiovascular disease..... 34.4 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 1.1 %  
Chronic pulmonary disease..... 35.4 %  
Cerebrovascular degeneration..... 2.8 %  
Diabetes mellitus..... 10.4 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 65.7%  
State ..... 32.5%  
Outside State ..... 1.8%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 7.3 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 96  
Occupancy Rate ..... 58.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 32.1 %  
Case Mix Index (CMI) ..... 1.3456

### STAFFING:

Total Number of Physicians..... 40  
Percent of Physicians Board  
Certified Specialists ..... 97.5 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 107  
Licensed Practical Nurses ..... 10

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# PAUL B HALL REGIONAL MEDICAL CENTER

625 W JAMES S TRIMBLE BLVD, BOX 1487

PAINTSVILLE, KY 41240

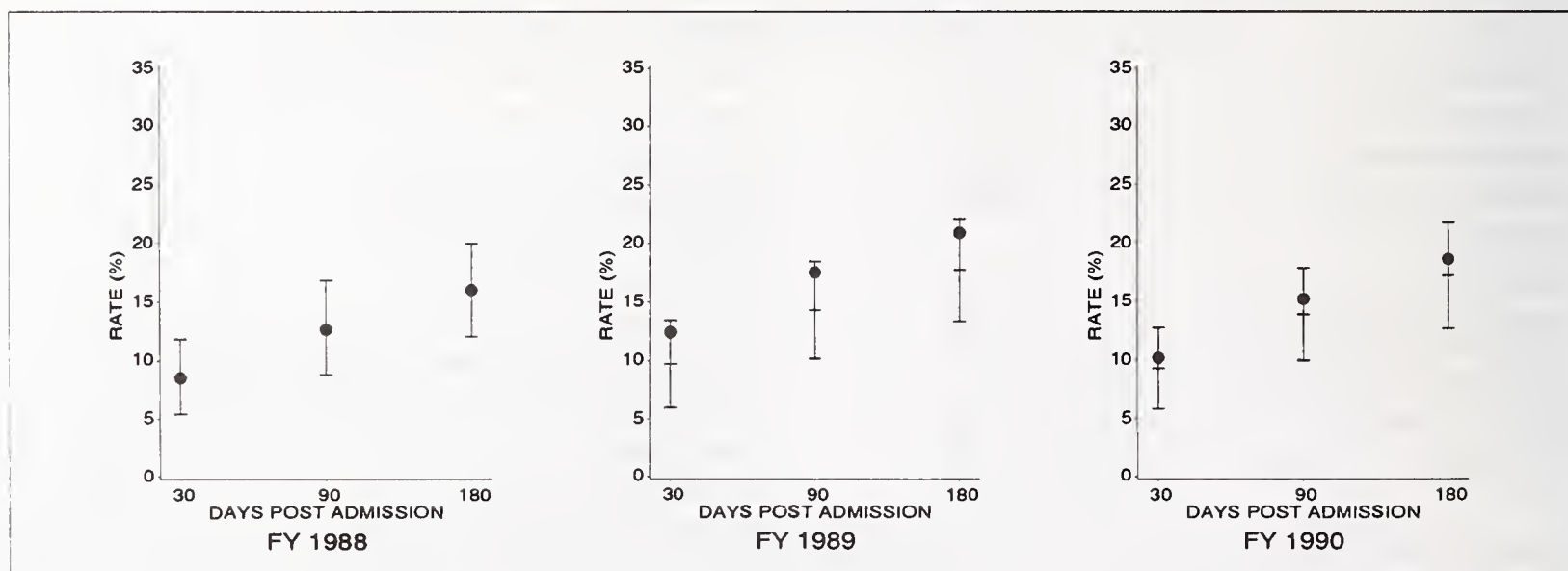
Medicare Provider Number: 180078

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 462             | 10.2                | 9.3  | 1.7   | 15.2    | 13.9 | 2.0   | 18.6     | 17.2 | 2.3   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 21              | 38.1                | 26.7 | ----- | 38.1    | 29.3 | ----- | 38.1     | 32.0 | ----- |
| Congestive Heart Failure.....              | 24              | 20.8                | 13.3 | ----- | 29.2    | 21.6 | ----- | 37.5     | 27.4 | ----- |
| Pneumonia/Influenza.....                   | 39              | 15.4                | 16.6 | ----- | 23.1    | 22.6 | ----- | 23.1     | 26.3 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 19              | 10.5                | 5.4  | ----- | 21.1    | 10.3 | ----- | 26.3     | 14.5 | ----- |
| Transient Cerebral Ischemia.....           | 7               | 0.0                 | 1.1  | ----- | 0.0     | 2.6  | ----- | 0.0      | 4.6  | ----- |
| Stroke.....                                | 17              | 17.6                | 21.2 | ----- | 29.4    | 28.3 | ----- | 41.2     | 32.4 | ----- |
| Hip Fracture.....                          | 5               | 0.0                 | 3.4  | ----- | 0.0     | 6.6  | ----- | 0.0      | 9.0  | ----- |
| Sepsis.....                                | 1               | 100.0               | 53.2 | ----- | 100.0   | 57.6 | ----- | 100.0    | 61.3 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 1               | 0.0                 | 3.1  | ----- | 0.0     | 5.6  | ----- | 0.0      | 7.5  | ----- |
| Prostatectomy.....                         | 9               | 0.0                 | 0.7  | ----- | 0.0     | 1.6  | ----- | 11.1     | 2.7  | ----- |
| Cholecystectomy.....                       | 6               | 0.0                 | 2.3  | ----- | 0.0     | 4.1  | ----- | 16.7     | 5.0  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# PAUL B HALL REGIONAL MEDICAL CENTER

Medicare Provider Number: 180078

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 71.7 years  
Proportion female..... 50.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 40.3 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.6 %  
Admitted for emergency..... 0.2 %

### COMORBIDITIES:

Cancer..... 6.1 %  
Chronic cardiovascular disease..... 39.6 %  
Chronic liver disease..... 0.4 %  
Chronic renal disease..... 3.9 %  
Chronic pulmonary disease..... 27.3 %  
Cerebrovascular degeneration..... 1.7 %  
Diabetes mellitus..... 5.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 58.6%  
State ..... 39.2%  
Outside State ..... 2.2%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.2 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 72  
Occupancy Rate ..... 51.0 %  
Ownership/Control..... Private, For Profit  
Medicare Discharges .....(Not Available)  
Case Mix Index (CMI) ..... 1.0223

### STAFFING:

Total Number of Physicians..... (Not Available)  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... (Not Available)  
Registered Nurses..... (Not Available)  
Licensed Practical Nurses ..... (Not Available)

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



# PINEVILLE COMMUNITY HOSPITAL

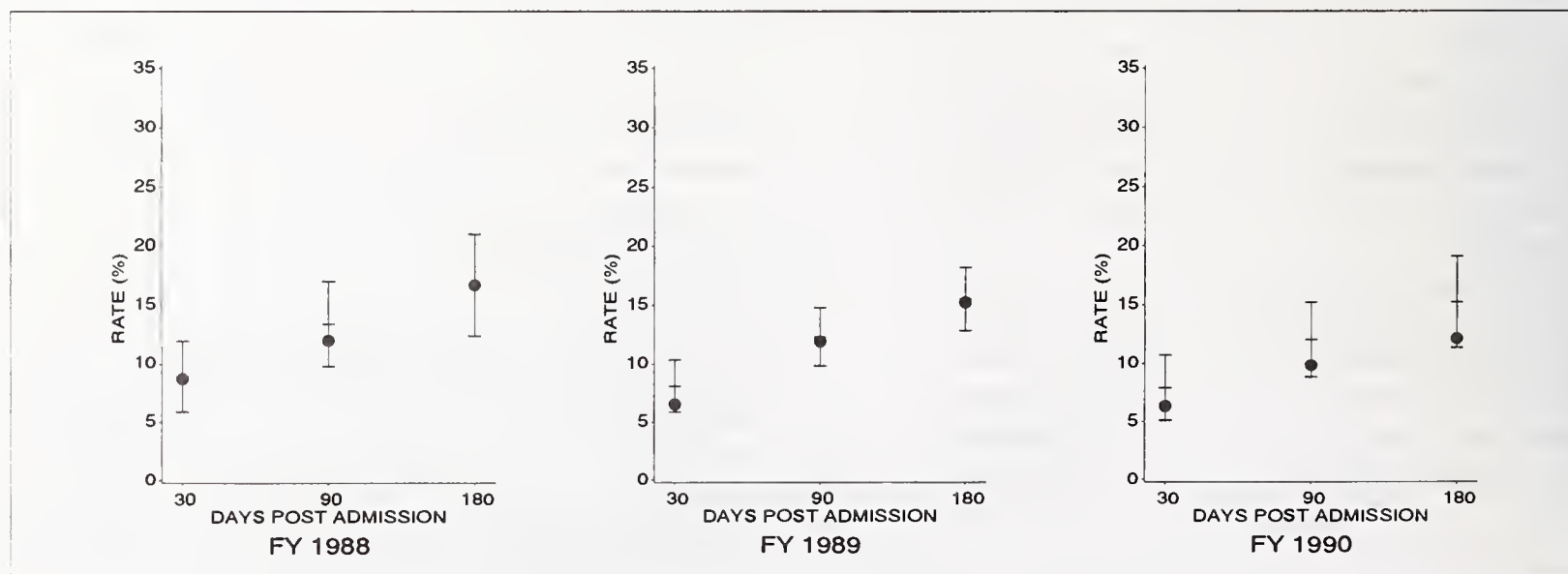
RIVERVIEW AV  
PINEVILLE, KY 40977  
Medicare Provider Number: 180021

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 712                | 6.3                 | 7.9  | 1.4   | 9.8     | 12.0 | 1.6   | 12.1     | 15.2 | 2.0   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 19                 | 26.3                | 20.1 | ----- | 26.3    | 22.1 | ----- | 26.3     | 24.5 | ----- |
| Congestive Heart Failure.....              | 46                 | 8.7                 | 16.4 | ----- | 17.4    | 25.3 | ----- | 17.4     | 31.8 | ----- |
| Pneumonia/Influenza.....                   | 43                 | 7.0                 | 13.1 | ----- | 14.0    | 18.8 | ----- | 18.6     | 22.5 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 15                 | 0.0                 | 7.4  | ----- | 0.0     | 13.8 | ----- | 6.7      | 19.0 | ----- |
| Transient Cerebral Ischemia.....           | 14                 | 7.1                 | 2.2  | ----- | 14.3    | 5.2  | ----- | 14.3     | 8.7  | ----- |
| Stroke.....                                | 23                 | 26.1                | 17.6 | ----- | 30.4    | 24.6 | ----- | 34.8     | 28.6 | ----- |
| Hip Fracture.....                          | 10                 | 0.0                 | 7.1  | ----- | 20.0    | 12.5 | ----- | 20.0     | 16.5 | ----- |
| Sepsis.....                                | 7                  | 42.9                | 29.0 | ----- | 42.9    | 37.5 | ----- | 42.9     | 42.1 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 2                  | 0.0                 | 2.7  | ----- | 50.0    | 4.1  | ----- | 50.0     | 5.5  | ----- |
| Open Reduction of Hip Fracture.....        | 5                  | 0.0                 | 8.1  | ----- | 0.0     | 15.6 | ----- | 0.0      | 21.0 | ----- |
| Prostatectomy.....                         | 12                 | 0.0                 | 0.8  | ----- | 0.0     | 1.9  | ----- | 0.0      | 3.3  | ----- |
| Cholecystectomy.....                       | 13                 | 0.0                 | 2.4  | ----- | 0.0     | 3.9  | ----- | 0.0      | 4.7  | ----- |
| Hysterectomy.....                          | 7                  | 0.0                 | 1.2  | ----- | 0.0     | 2.4  | ----- | 0.0      | 3.6  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# PINEVILLE COMMUNITY HOSPITAL

Medicare Provider Number: 180021

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 70.3 years  
Proportion female..... 55.3 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 40.7 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 42.0 %

### COMORBIDITIES:

Cancer..... 5.1 %  
Chronic cardiovascular disease..... 26.7 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 2.1 %  
Chronic pulmonary disease..... 20.2 %  
Cerebrovascular degeneration..... 3.4 %  
Diabetes mellitus..... 15.6 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 62.1 %  
State..... 34.1 %  
Outside State..... 3.8 %  
Total..... 100.0 %

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 8.2 Days  
State..... 8.2 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 150  
Occupancy Rate..... 57.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges..... 34.9 %  
Case Mix Index (CMI)..... 0.9631

### STAFFING:

Total Number of Physicians..... 13  
Percent of Physicians Board  
Certified Specialists..... 53.8 %  
Medical Residents/Interns..... (Not Available)  
Registered Nurses..... (Not Available)  
Licensed Practical Nurses..... (Not Available)

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... Yes  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# REGIONAL MEDICAL CENTER-HOPKINS COUNTY

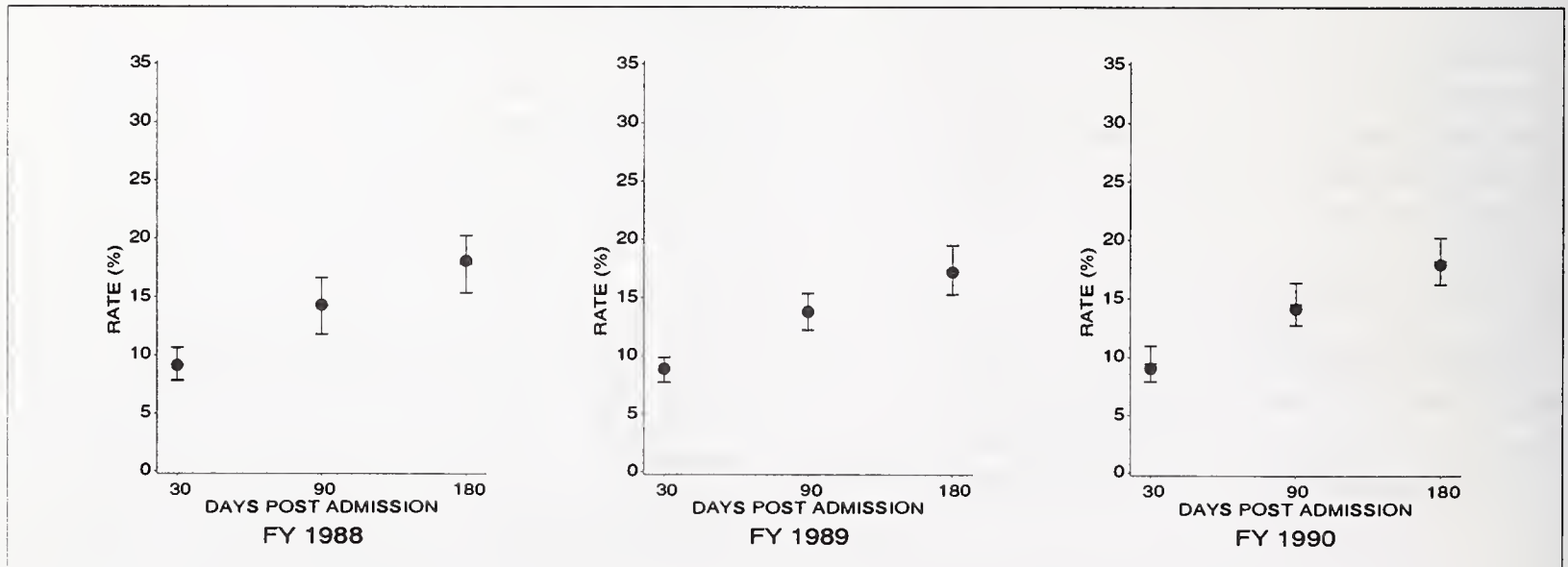
900 HOSPITAL DR  
MADISONVILLE, KY 42431  
Medicare Provider Number: 180093

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|--------------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                    | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                    | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 2688               | 9.0                 | 9.4  | 0.8  | 14.1    | 14.5 | 0.9  | 17.9     | 18.2 | 1.0  |
| CONDITIONS:                                |                    |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 79                 | 19.0                | 22.8 | 5.8  | 22.8    | 25.5 | 5.8  | 25.3     | 28.0 | 5.5  |
| Congestive Heart Failure.....              | 132                | 20.5                | 13.8 | 5.3  | 28.8    | 22.5 | 5.8  | 35.6     | 28.9 | 5.8  |
| Pneumonia/Influenza.....                   | 124                | 19.4                | 16.0 | 6.1  | 27.4    | 22.2 | 6.5  | 31.5     | 26.3 | 5.8  |
| Chronic Obstructive Pulmonary Disease..... | 3                  | 66.7                | 7.6  | ---- | 66.7    | 15.0 | ---- | 66.7     | 23.0 | ---- |
| Transient Cerebral Ischemia.....           | 46                 | 0.0                 | 2.0  | ---- | 0.0     | 4.4  | ---- | 2.2      | 7.1  | ---- |
| Stroke.....                                | 44                 | 25.0                | 22.0 | ---- | 29.5    | 28.1 | ---- | 31.8     | 31.4 | ---- |
| Hip Fracture.....                          | 101                | 11.9                | 7.4  | 4.0  | 14.9    | 12.8 | 3.7  | 17.8     | 16.6 | 3.9  |
| Sepsis.....                                | 30                 | 20.0                | 28.2 | ---- | 33.3    | 36.0 | ---- | 33.3     | 40.7 | ---- |
| PROCEDURES:                                |                    |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 35                 | 0.0                 | 4.3  | ---- | 0.0     | 5.1  | ---- | 2.9      | 5.9  | ---- |
| Coronary Artery Bypass Graft.....          | 44                 | 2.3                 | 5.5  | ---- | 4.5     | 7.4  | ---- | 4.5      | 8.3  | ---- |
| Initial Pacemaker Insertion.....           | 12                 | 8.3                 | 2.1  | ---- | 16.7    | 4.3  | ---- | 16.7     | 6.6  | ---- |
| Carotid Endarterectomy.....                | 29                 | 3.4                 | 1.8  | ---- | 3.4     | 3.2  | ---- | 3.4      | 4.6  | ---- |
| Hip Replacement/Reconstruction.....        | 61                 | 4.9                 | 3.6  | 2.7  | 4.9     | 6.7  | 3.5  | 8.2      | 9.3  | 3.8  |
| Open Reduction of Hip Fracture.....        | 64                 | 14.1                | 7.5  | 4.4  | 18.8    | 13.4 | 4.9  | 20.3     | 17.5 | 5.1  |
| Prostatectomy.....                         | 65                 | 3.1                 | 1.3  | 2.0  | 3.1     | 3.0  | 4.5  | 4.6      | 5.0  | 6.7  |
| Cholecystectomy.....                       | 66                 | 1.5                 | 3.9  | 3.3  | 6.1     | 6.7  | 5.0  | 6.1      | 8.7  | 4.6  |
| Hysterectomy.....                          | 16                 | 0.0                 | 0.7  | ---- | 0.0     | 1.5  | ---- | 0.0      | 2.1  | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# REGIONAL MEDICAL CENTER-HOPKINS COUNTY

Medicare Provider Number: 180093

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 72.5 years  
Proportion female..... 53.9 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 31.0 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.1 %  
Admitted for emergency..... 69.8 %

### COMORBIDITIES:

Cancer..... 8.9 %  
Chronic cardiovascular disease..... 40.9 %  
Chronic liver disease..... 1.4 %  
Chronic renal disease..... 5.7 %  
Chronic pulmonary disease..... 18.0 %  
Cerebrovascular degeneration..... 4.7 %  
Diabetes mellitus..... 12.3 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 56.1 %  
State ..... 42.2 %  
Outside State ..... 1.7 %  
Total ..... 100.0 %

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 10.1 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 410  
Occupancy Rate ..... 52.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 35.5 %  
Case Mix Index (CMI) ..... 1.3492

### STAFFING:

Total Number of Physicians..... 82  
Percent of Physicians Board  
Certified Specialists..... 85.4 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 258  
Licensed Practical Nurses..... 95

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# ROCKCASTLE HOSPITAL

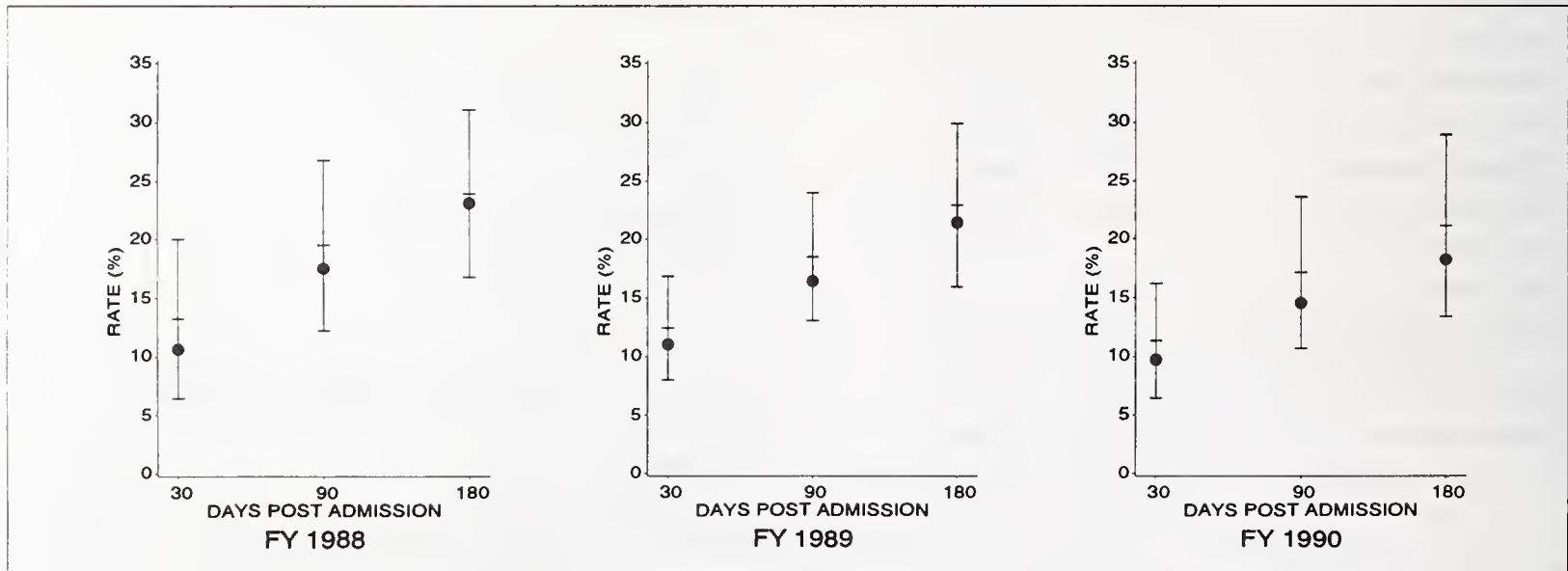
NEWCOMB ST RT 4, BOX 28  
MOUNT VERNON, KY 40456  
Medicare Provider Number: 180115

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 269             | 9.7                 | 11.3 | 2.5   | 14.5    | 17.1 | 3.2   | 18.2     | 21.1 | 3.9   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 14              | 35.7                | 22.2 | ----- | 35.7    | 26.6 | ----- | 42.9     | 29.5 | ----- |
| Congestive Heart Failure.....              | 3               | 0.0                 | 10.3 | ----- | 0.0     | 17.0 | ----- | 0.0      | 22.6 | ----- |
| Pneumonia/Influenza.....                   | 42              | 9.5                 | 15.5 | ----- | 19.0    | 22.2 | ----- | 26.2     | 26.3 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 15              | 6.7                 | 8.0  | ----- | 13.3    | 14.3 | ----- | 13.3     | 18.6 | ----- |
| Transient Cerebral Ischemia.....           | 6               | 0.0                 | 2.7  | ----- | 16.7    | 6.0  | ----- | 16.7     | 9.5  | ----- |
| Stroke.....                                | 12              | 25.0                | 18.6 | ----- | 25.0    | 24.0 | ----- | 25.0     | 27.6 | ----- |
| Hip Fracture.....                          | 2               | 0.0                 | 14.8 | ----- | 0.0     | 27.5 | ----- | 0.0      | 37.1 | ----- |
| Sepsis.....                                | 7               | 14.3                | 25.1 | ----- | 28.6    | 34.3 | ----- | 28.6     | 39.5 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 2               | 0.0                 | 12.6 | ----- | 0.0     | 24.8 | ----- | 0.0      | 34.6 | ----- |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 1               | 0.0                 | 1.4  | ----- | 0.0     | 2.6  | ----- | 0.0      | 3.8  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# ROCKCASTLE HOSPITAL

Medicare Provider Number: 180115

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.0 years  
Proportion female..... 55.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 91.1 %  
Transferred from skilled nursing facility..... 0.4 %  
Admitted for elective procedure..... 0.4 %  
Admitted for emergency..... 94.8 %

### COMORBIDITIES:

Cancer..... 5.9 %  
Chronic cardiovascular disease..... 33.7 %  
Chronic liver disease..... 1.5 %  
Chronic renal disease..... 3.3 %  
Chronic pulmonary disease..... 26.7 %  
Cerebrovascular degeneration..... 5.2 %  
Diabetes mellitus..... 13.3 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 82.6%  
State ..... 15.4%  
Outside State ..... 2.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.0 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 58  
Occupancy Rate ..... 77.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 55.1 %  
Case Mix Index (CMI) ..... 1.0111

### STAFFING:

Total Number of Physicians..... (Not Available)  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... (Not Available)  
Registered Nurses..... (Not Available)  
Licensed Practical Nurses ..... (Not Available)

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# RUSSELL COUNTY HOSPITAL

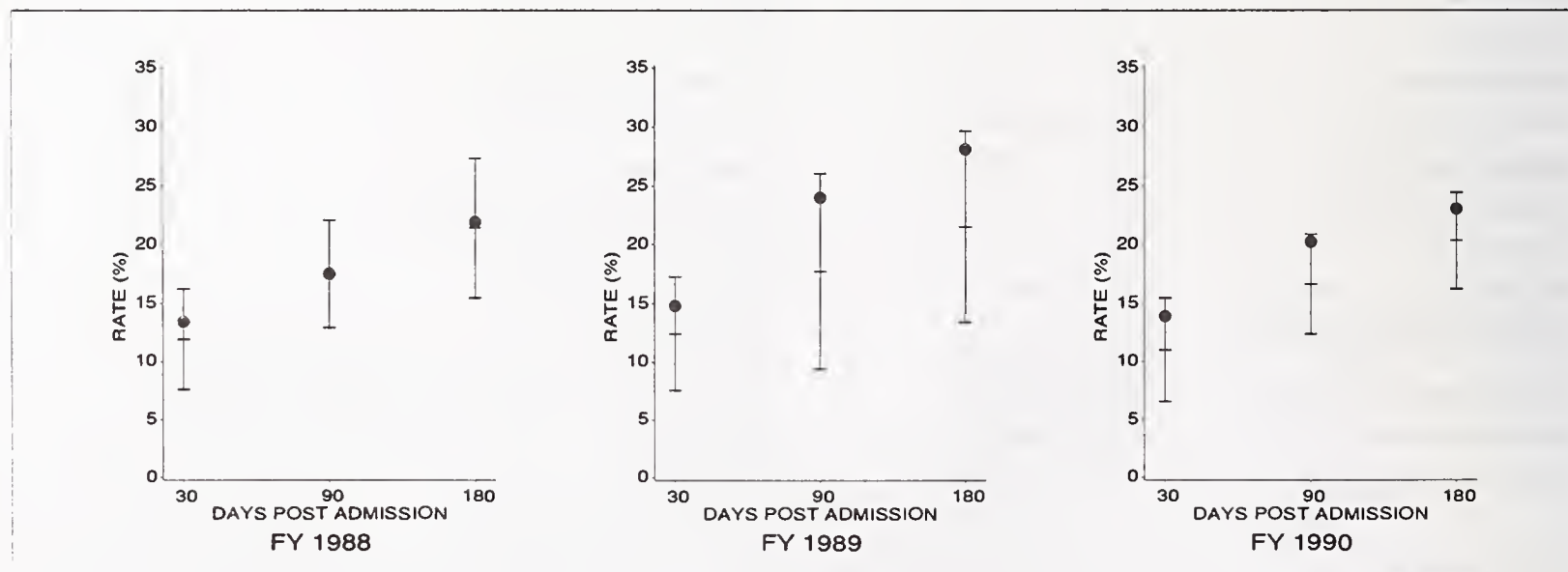
DOWELL RD, BOX 147  
RUSSELL SPRINGS, KY 42642  
Medicare Provider Number: 180134

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 460                | 13.9                | 11.0 | 2.2   | 20.2    | 16.6 | 2.1   | 23.0     | 20.3 | 2.1   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 16                 | 31.3                | 32.5 | ----- | 31.3    | 35.7 | ----- | 31.3     | 38.2 | ----- |
| Congestive Heart Failure.....              | 20                 | 20.0                | 17.1 | ----- | 30.0    | 27.2 | ----- | 35.0     | 33.9 | ----- |
| Pneumonia/Influenza.....                   | 35                 | 17.1                | 17.8 | ----- | 31.4    | 24.0 | ----- | 31.4     | 28.0 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 9                  | 0.0                 | 5.0  | ----- | 0.0     | 8.8  | ----- | 0.0      | 12.2 | ----- |
| Transient Cerebral Ischemia.....           | 8                  | 0.0                 | 1.5  | ----- | 0.0     | 3.6  | ----- | 0.0      | 6.2  | ----- |
| Stroke.....                                | 13                 | 23.1                | 18.0 | ----- | 30.8    | 24.6 | ----- | 46.2     | 29.0 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 7                  | 28.6                | 28.5 | ----- | 42.9    | 36.9 | ----- | 42.9     | 42.3 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 24                 | 0.0                 | 0.9  | ----- | 4.2     | 2.2  | ----- | 4.2      | 3.9  | ----- |
| Cholecystectomy.....                       | 8                  | 0.0                 | 4.3  | ----- | 0.0     | 8.9  | ----- | 0.0      | 12.4 | ----- |
| Hysterectomy.....                          | 1                  | 0.0                 | 0.0  | ----- | 0.0     | 0.1  | ----- | 0.0      | 0.1  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



## RUSSELL COUNTY HOSPITAL

Medicare Provider Number: 180134

### FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

#### DEMOGRAPHICS:

Average age at admission..... 75.7 years  
Proportion female..... 51.5 %

#### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 63.5 %  
Transferred from skilled nursing facility..... 0.2 %  
Admitted for elective procedure..... 12.6 %  
Admitted for emergency..... 67.8 %

#### COMORBIDITIES:

Cancer..... 7.2 %  
Chronic cardiovascular disease..... 36.3 %  
Chronic liver disease..... 0.9 %  
Chronic renal disease..... 4.3 %  
Chronic pulmonary disease..... 13.9 %  
Cerebrovascular degeneration..... 3.7 %  
Diabetes mellitus..... 7.8 %

### ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

#### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 71.6%  
State ..... 27.4%  
Outside State ..... 1.0%  
Total ..... 100.0%

#### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.6 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

### HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

#### PROFILE:

Total Beds ..... 45  
Occupancy Rate ..... 53.0 %  
Ownership/Control..... District/Authority  
Medicare Discharges ..... 52.9 %  
Case Mix Index (CMI) ..... 1.1294

#### STAFFING:

Total Number of Physicians..... 10  
Percent of Physicians Board  
Certified Specialists ..... 60.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses ..... 20  
Licensed Practical Nurses ..... 15

#### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

#### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# SPRINGVIEW HOSPITAL

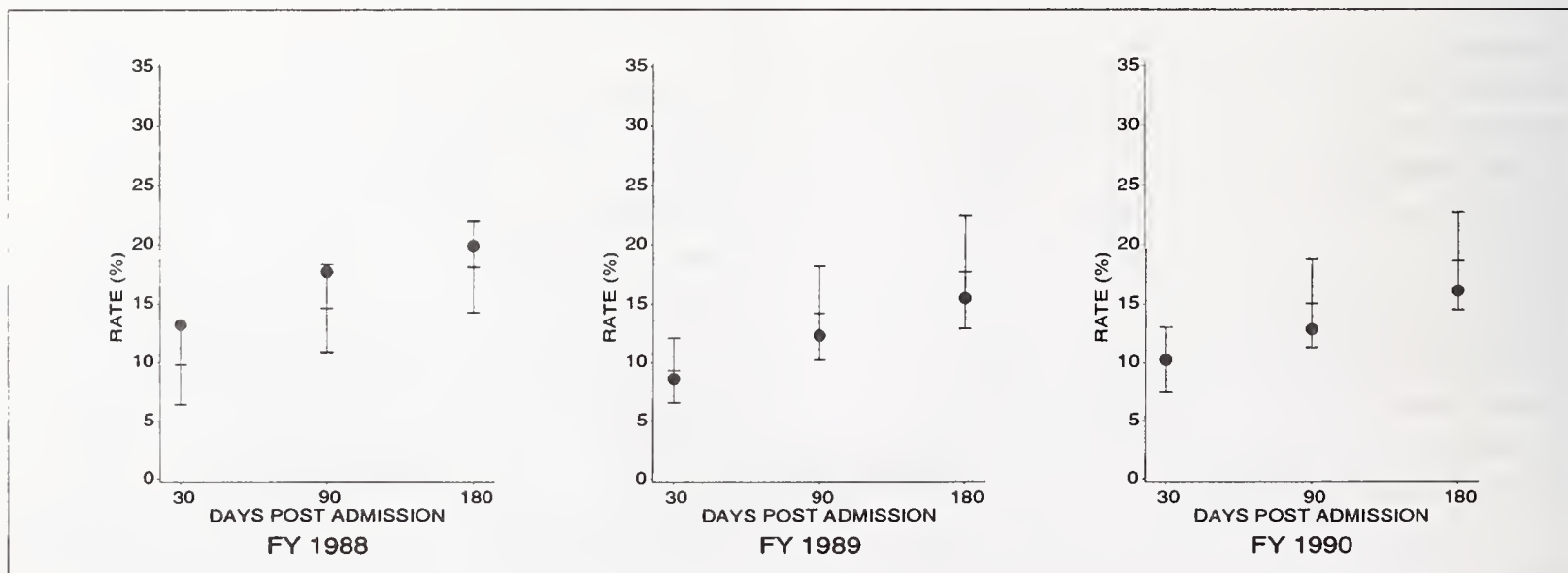
ST MARY RD  
LEBANON, KY 40033  
Medicare Provider Number: 180024

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 509             | 10.2                | 10.2 | 1.4   | 12.8    | 15.0 | 1.9   | 16.1     | 18.6 | 2.1   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 20              | 35.0                | 24.3 | ----- | 45.0    | 27.3 | ----- | 50.0     | 29.8 | ----- |
| Congestive Heart Failure.....              | 40              | 5.0                 | 12.8 | ----- | 15.0    | 21.0 | ----- | 17.5     | 27.1 | ----- |
| Pneumonia/Influenza.....                   | 67              | 11.9                | 12.7 | 5.4   | 14.9    | 17.6 | 6.7   | 17.9     | 21.2 | 8.5   |
| Chronic Obstructive Pulmonary Disease..... | 9               | 0.0                 | 7.1  | ----- | 0.0     | 13.8 | ----- | 22.2     | 19.2 | ----- |
| Transient Cerebral Ischemia.....           | 8               | 0.0                 | 1.5  | ----- | 0.0     | 3.2  | ----- | 0.0      | 5.2  | ----- |
| Stroke.....                                | 22              | 31.8                | 18.8 | ----- | 31.8    | 24.7 | ----- | 31.8     | 28.4 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 3               | 0.0                 | 8.4  | ----- | 0.0     | 11.3 | ----- | 0.0      | 14.0 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 1               | 0.0                 | 6.8  | ----- | 0.0     | 12.4 | ----- | 0.0      | 17.9 | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 6               | 16.7                | 0.9  | ----- | 16.7    | 1.6  | ----- | 16.7     | 2.2  | ----- |
| Hysterectomy.....                          | 3               | 0.0                 | 0.5  | ----- | 0.0     | 1.3  | ----- | 0.0      | 2.3  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





## SPRINGVIEW HOSPITAL

Medicare Provider Number: 180024

### FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

#### DEMOGRAPHICS:

Average age at admission..... 75.8 years  
Proportion female..... 58.6 %

#### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 97.8 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.8 %  
Admitted for emergency..... 44.1 %

#### COMORBIDITIES:

Cancer..... 1.6 %  
Chronic cardiovascular disease..... 34.5 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 9.2 %  
Chronic pulmonary disease..... 16.9 %  
Cerebrovascular degeneration..... 6.7 %  
Diabetes mellitus..... 7.3 %

### ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

#### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 60.7%  
State..... 39.0%  
Outside State..... 0.3%  
Total..... 100.0%

#### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 4.8 Days  
State..... 8.2 Days  
National..... 8.6 Days

### HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

#### PROFILE:

Total Beds..... 113  
Occupancy Rate..... 50.0 %  
Ownership/Control..... Private, For Profit  
Medicare Discharges..... 40.5 %  
Case Mix Index (CMI)..... 1.0522

#### STAFFING:

Total Number of Physicians..... 14  
Percent of Physicians Board  
Certified Specialists..... 50.0 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 23  
Licensed Practical Nurses..... 13

#### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... Yes  
Hospice Care..... Yes  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

#### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# ST ANTHONY MEDICAL CENTER

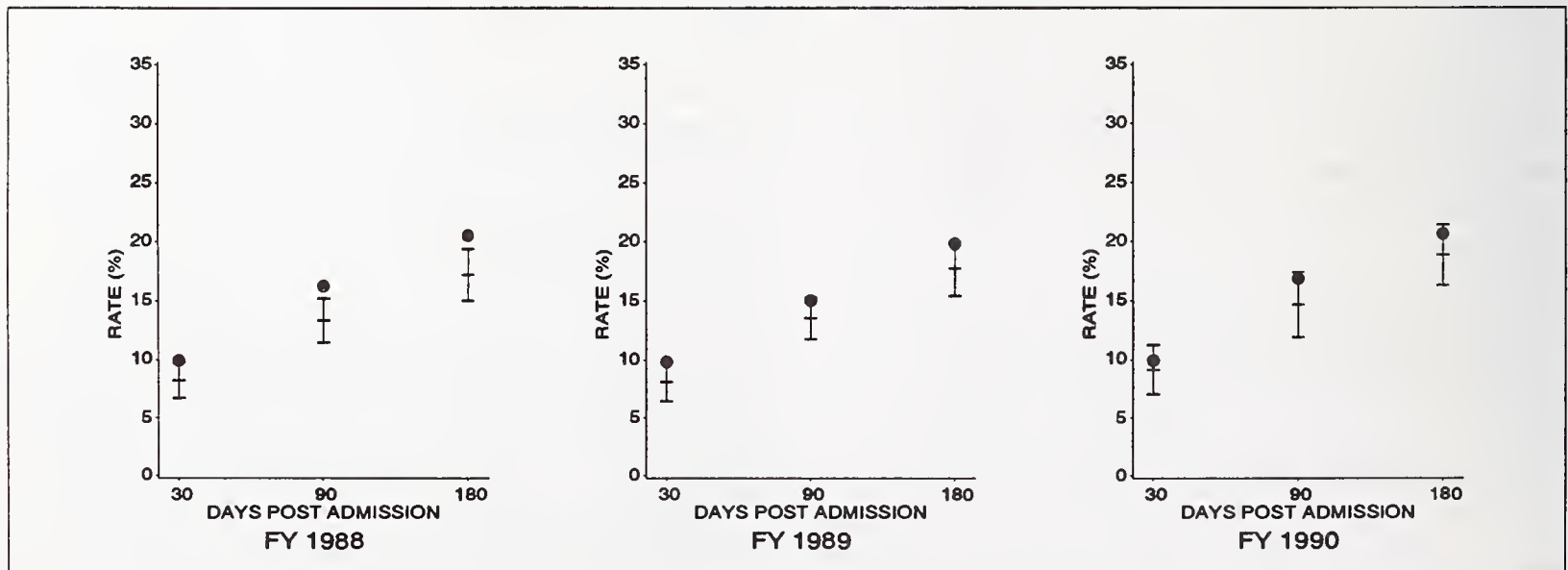
1313 ST ANTHONY PLACE  
LOUISVILLE, KY 40204  
Medicare Provider Number: 180085

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|-----------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                 | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                 | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 2322            | 9.9                 | 9.1  | 1.1  | 16.8    | 14.6 | 1.4  | 20.6     | 18.8 | 1.3  |
| CONDITIONS:                                |                 |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 65              | 26.2                | 19.8 | 7.8  | 29.2    | 23.4 | 7.9  | 32.3     | 26.5 | 7.7  |
| Congestive Heart Failure.....              | 118             | 12.7                | 15.4 | 4.2  | 24.6    | 24.8 | 5.3  | 30.5     | 31.4 | 4.9  |
| Pneumonia/Influenza.....                   | 182             | 12.1                | 14.9 | 3.5  | 21.4    | 21.4 | 3.1  | 27.5     | 25.7 | 3.6  |
| Chronic Obstructive Pulmonary Disease..... | 54              | 11.1                | 5.9  | 5.6  | 18.5    | 11.0 | 7.8  | 24.1     | 15.4 | 8.2  |
| Transient Cerebral Ischemia.....           | 33              | 3.0                 | 1.1  | ---- | 3.0     | 2.7  | ---- | 3.0      | 4.6  | ---- |
| Stroke.....                                | 68              | 16.2                | 17.1 | 5.9  | 26.5    | 24.5 | 5.4  | 26.5     | 29.0 | 5.8  |
| Hip Fracture.....                          | 69              | 10.1                | 5.9  | 4.7  | 11.6    | 10.5 | 4.1  | 15.9     | 13.8 | 4.6  |
| Sepsis.....                                | 27              | 22.2                | 26.0 | ---- | 37.0    | 36.1 | ---- | 40.7     | 41.7 | ---- |
| PROCEDURES:                                |                 |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0               |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 9               | 0.0                 | 3.4  | ---- | 11.1    | 6.7  | ---- | 11.1     | 9.4  | ---- |
| Carotid Endarterectomy.....                | 16              | 6.3                 | 1.3  | ---- | 6.3     | 2.3  | ---- | 12.5     | 3.4  | ---- |
| Hip Replacement/Reconstruction.....        | 35              | 5.7                 | 3.5  | ---- | 8.6     | 6.8  | ---- | 17.1     | 9.4  | ---- |
| Open Reduction of Hip Fracture.....        | 30              | 13.3                | 7.3  | ---- | 13.3    | 12.7 | ---- | 13.3     | 16.4 | ---- |
| Prostatectomy.....                         | 60              | 3.3                 | 1.8  | 1.9  | 5.0     | 4.1  | 3.9  | 11.7     | 7.0  | 4.2  |
| Cholecystectomy.....                       | 52              | 3.8                 | 2.2  | 2.5  | 7.7     | 4.0  | 4.4  | 7.7      | 5.4  | 3.9  |
| Hysterectomy.....                          | 12              | 0.0                 | 0.6  | ---- | 0.0     | 1.3  | ---- | 0.0      | 1.8  | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# ST ANTHONY MEDICAL CENTER

Medicare Provider Number: 180085

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.2 years  
Proportion female..... 63.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 49.4 %  
Transferred from skilled nursing facility..... 15.2 %  
Admitted for elective procedure..... 54.6 %  
Admitted for emergency..... 15.2 %

### COMORBIDITIES:

Cancer..... 7.7 %  
Chronic cardiovascular disease..... 36.7 %  
Chronic liver disease..... 0.9 %  
Chronic renal disease..... 2.8 %  
Chronic pulmonary disease..... 18.7 %  
Cerebrovascular degeneration..... 7.0 %  
Diabetes mellitus..... 10.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 86.2%  
State..... 9.0%  
Outside State..... 4.8%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 10.0 Days  
State..... 8.2 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 216  
Occupancy Rate..... 65.0 %  
Ownership/Control..... Church  
Medicare Discharges..... 56.8 %  
Case Mix Index (CMI)..... 1.2325

### STAFFING:

Total Number of Physicians..... 156  
Percent of Physicians Board  
Certified Specialists.....(Not Available)  
Medical Residents/Interns..... 0  
Registered Nurses..... 184  
Licensed Practical Nurses..... 26

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... Yes  
Comprehensive Geriatric..... Yes  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



# ST CLAIRE MEDICAL CENTER

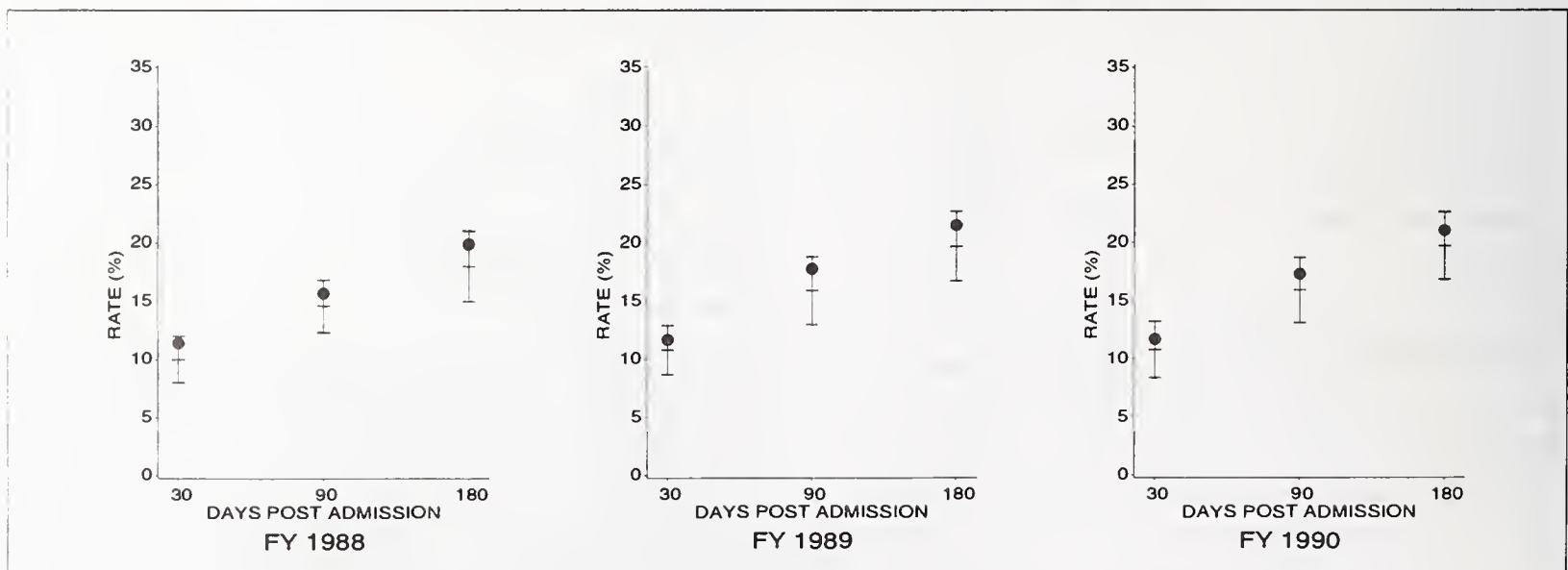
222 MEDICAL CIRCLE  
MOREHEAD, KY 40351  
Medicare Provider Number: 180018

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1240            | 11.7                | 10.8 | 1.2   | 17.3    | 15.9 | 1.4   | 21.0     | 19.7 | 1.4   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 42              | 28.6                | 33.2 | ----- | 33.3    | 35.8 | ----- | 35.7     | 38.8 | ----- |
| Congestive Heart Failure.....              | 64              | 17.2                | 16.0 | 7.0   | 25.0    | 25.5 | 5.6   | 28.1     | 31.9 | 6.6   |
| Pneumonia/Influenza.....                   | 77              | 20.8                | 18.1 | 4.9   | 29.9    | 25.2 | 6.5   | 36.4     | 29.7 | 8.0   |
| Chronic Obstructive Pulmonary Disease..... | 46              | 10.9                | 8.3  | ----- | 13.0    | 14.0 | ----- | 19.6     | 18.4 | ----- |
| Transient Cerebral Ischemia.....           | 21              | 0.0                 | 1.8  | ----- | 4.8     | 3.9  | ----- | 9.5      | 6.3  | ----- |
| Stroke.....                                | 55              | 20.0                | 20.4 | 6.8   | 29.1    | 26.2 | 6.4   | 34.5     | 29.7 | 7.4   |
| Hip Fracture.....                          | 40              | 7.5                 | 6.8  | ----- | 10.0    | 12.0 | ----- | 10.0     | 15.5 | ----- |
| Sepsis.....                                | 31              | 41.9                | 30.3 | ----- | 58.1    | 39.3 | ----- | 64.5     | 44.4 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 13              | 0.0                 | 2.4  | ----- | 0.0     | 5.0  | ----- | 7.7      | 7.6  | ----- |
| Carotid Endarterectomy.....                | 4               | 0.0                 | 1.1  | ----- | 0.0     | 2.1  | ----- | 0.0      | 3.2  | ----- |
| Hip Replacement/Reconstruction.....        | 22              | 0.0                 | 6.1  | ----- | 9.1     | 11.9 | ----- | 9.1      | 16.3 | ----- |
| Open Reduction of Hip Fracture.....        | 18              | 5.6                 | 5.7  | ----- | 5.6     | 10.5 | ----- | 5.6      | 14.0 | ----- |
| Prostatectomy.....                         | 34              | 0.0                 | 0.8  | ----- | 0.0     | 2.0  | ----- | 0.0      | 3.5  | ----- |
| Cholecystectomy.....                       | 41              | 2.4                 | 4.0  | ----- | 4.9     | 6.8  | ----- | 4.9      | 8.7  | ----- |
| Hysterectomy.....                          | 8               | 0.0                 | 0.2  | ----- | 0.0     | 0.4  | ----- | 0.0      | 0.8  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



## ST CLAIRE MEDICAL CENTER

Medicare Provider Number: 180018

### FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

#### DEMOGRAPHICS:

Average age at admission..... 74.0 years

Proportion female..... 53.4 %

#### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 28.5 %

Transferred from skilled nursing facility..... 1.2 %

Admitted for elective procedure..... 10.2 %

Admitted for emergency..... 87.7 %

#### COMORBIDITIES:

Cancer..... 8.1 %

Chronic cardiovascular disease..... 38.5 %

Chronic liver disease..... 0.7 %

Chronic renal disease..... 5.3 %

Chronic pulmonary disease..... 17.7 %

Cerebrovascular degeneration..... 6.8 %

Diabetes mellitus..... 7.5 %

### ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

#### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 33.2%

State..... 64.4%

Outside State..... 2.4%

Total..... 100.0%

#### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 7.2 Days

State..... 8.2 Days

National..... 8.6 Days

### HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

#### PROFILE:

Total Beds..... 133

Occupancy Rate..... 62.0 %

Ownership/Control..... Church

Medicare Discharges..... 36.7 %

Case Mix Index (CMI)..... 1.2041

#### STAFFING:

Total Number of Physicians..... 60

Percent of Physicians Board  
Certified Specialists..... 78.3 %

Medical Residents/Interns..... 0

Registered Nurses..... 86

Licensed Practical Nurses..... 43

#### SPECIALTY SERVICES:

Burn Unit..... No

Cardiac Intensive Care..... No

Comprehensive Geriatric..... No

Hospice Care..... Yes

Medical/Surgical Intensive Care..... Yes

Organ/Tissue Transplant..... No

Other Intensive Care..... Yes

Trauma Center..... No

#### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No

Rehabilitation..... No

Psychiatric..... Yes

Medicare Swing Beds..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# ST ELIZABETH MEDICAL CENTER

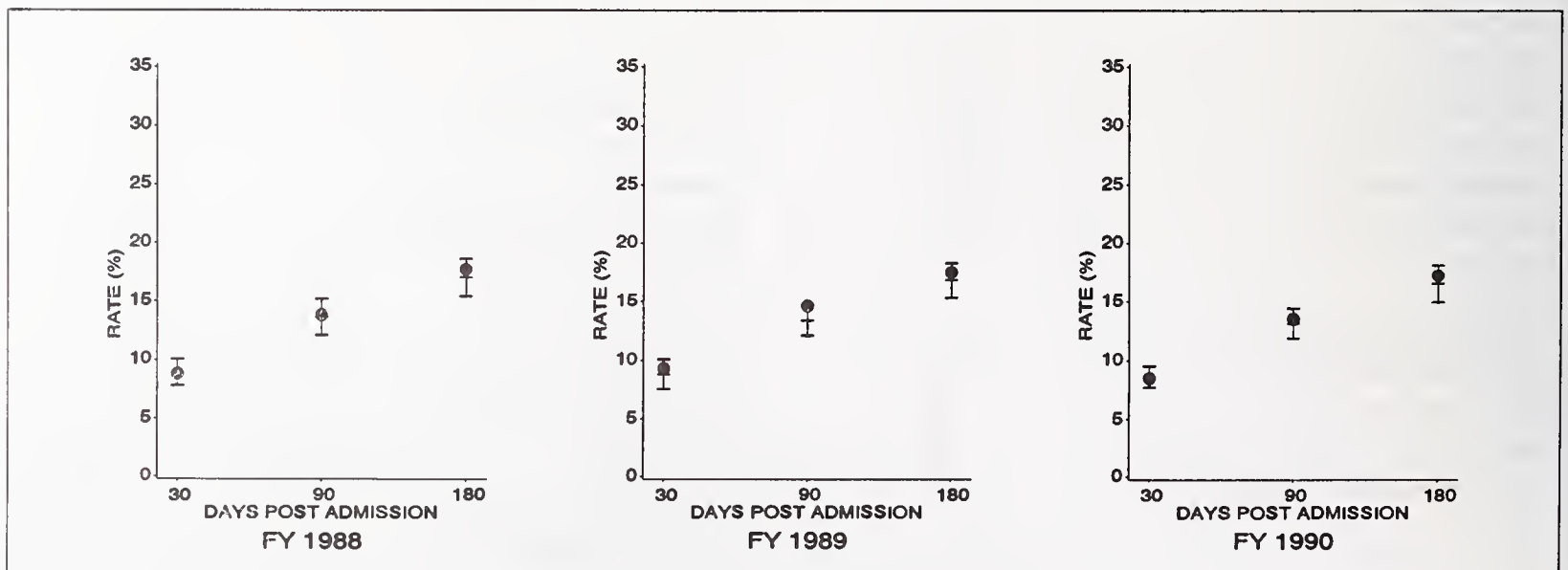
401 E 20TH ST  
COVINGTON, KY 41014  
Medicare Provider Number: 180035

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 4408            | 8.5                 | 8.6  | 0.5   | 13.5    | 13.1 | 0.6   | 17.2     | 16.5 | 0.8   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 165             | 21.8                | 22.8 | 3.5   | 23.0    | 25.4 | 3.8   | 24.8     | 27.8 | 3.9   |
| Congestive Heart Failure.....              | 232             | 13.4                | 13.1 | 2.4   | 19.8    | 21.0 | 2.9   | 25.9     | 26.9 | 3.1   |
| Pneumonia/Influenza.....                   | 240             | 14.2                | 14.7 | 2.3   | 20.0    | 20.0 | 2.7   | 25.4     | 23.4 | 3.2   |
| Chronic Obstructive Pulmonary Disease..... | 79              | 3.8                 | 5.9  | 4.5   | 11.4    | 10.8 | 5.6   | 16.5     | 14.6 | 4.8   |
| Transient Cerebral Ischemia.....           | 75              | 0.0                 | 2.0  | 2.3   | 2.7     | 4.4  | 2.8   | 10.7     | 7.1  | 4.7   |
| Stroke.....                                | 152             | 14.5                | 18.5 | 3.6   | 21.7    | 24.7 | 3.7   | 27.6     | 28.3 | 3.9   |
| Hip Fracture.....                          | 82              | 4.9                 | 5.8  | 3.1   | 4.9     | 10.4 | 5.0   | 8.5      | 13.5 | 5.6   |
| Sepsis.....                                | 90              | 17.8                | 25.5 | 5.2   | 30.0    | 31.9 | 5.0   | 35.6     | 36.4 | 5.1   |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 35              | 0.0                 | 3.7  | ----- | 2.9     | 4.8  | ----- | 2.9      | 5.7  | ----- |
| Coronary Artery Bypass Graft.....          | 128             | 1.6                 | 5.5  | 2.8   | 2.3     | 7.6  | 3.5   | 2.3      | 8.5  | 3.7   |
| Initial Pacemaker Insertion.....           | 26              | 0.0                 | 3.5  | ----- | 0.0     | 7.0  | ----- | 0.0      | 9.9  | ----- |
| Carotid Endarterectomy.....                | 49              | 2.0                 | 1.4  | ----- | 2.0     | 2.5  | ----- | 4.1      | 3.6  | ----- |
| Hip Replacement/Reconstruction.....        | 52              | 0.0                 | 3.4  | 3.1   | 1.9     | 6.4  | 4.2   | 1.9      | 8.6  | 5.3   |
| Open Reduction of Hip Fracture.....        | 16              | 18.8                | 5.9  | ----- | 18.8    | 10.4 | ----- | 25.0     | 13.6 | ----- |
| Prostatectomy.....                         | 101             | 1.0                 | 0.9  | 1.0   | 3.0     | 2.1  | 1.7   | 3.0      | 3.5  | 2.6   |
| Cholecystectomy.....                       | 81              | 0.0                 | 3.9  | 3.0   | 7.4     | 7.0  | 4.4   | 8.6      | 9.1  | 3.4   |
| Hysterectomy.....                          | 29              | 0.0                 | 0.7  | ----- | 3.4     | 1.7  | ----- | 3.4      | 2.8  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# ST ELIZABETH MEDICAL CENTER

Medicare Provider Number: 180035

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 73.2 years  
Proportion female..... 60.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 58.0 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 17.7 %  
Admitted for emergency..... 56.0 %

### COMORBIDITIES:

Cancer..... 7.5 %  
Chronic cardiovascular disease..... 35.9 %  
Chronic liver disease..... 0.9 %  
Chronic renal disease..... 4.7 %  
Chronic pulmonary disease..... 15.8 %  
Cerebrovascular degeneration..... 3.9 %  
Diabetes mellitus..... 6.8 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 69.8%  
State ..... 26.8%  
Outside State ..... 3.4%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 9.4 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 530  
Occupancy Rate ..... 72.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 33.7 %  
Case Mix Index (CMI) ..... 1.4080

### STAFFING:

Total Number of Physicians..... 366  
Percent of Physicians Board  
Certified Specialists ..... 76.0 %  
Medical Residents/Interns ..... 19  
Registered Nurses ..... 572  
Licensed Practical Nurses ..... 92

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... No  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# ST JOSEPH HOSPITAL

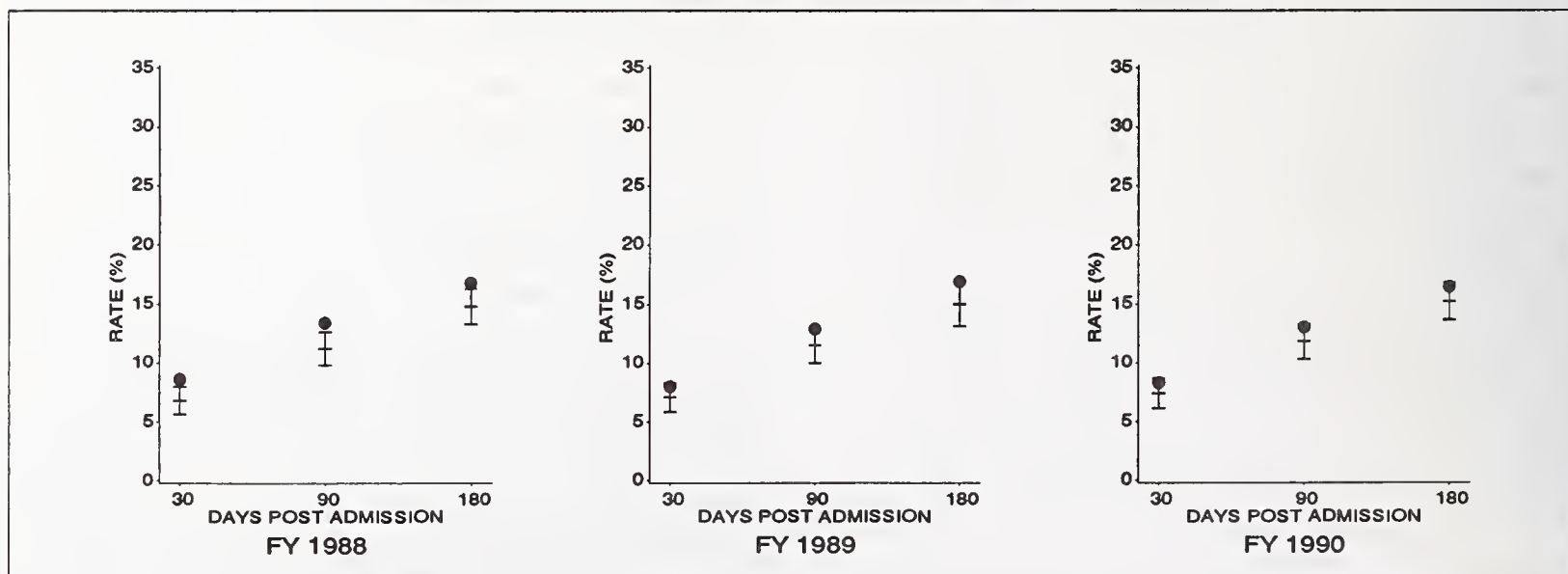
ONE ST JOSEPH DR  
LEXINGTON, KY 40504  
Medicare Provider Number: 180010

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 3765            | 8.3                 | 7.4  | 0.6   | 13.0    | 11.8 | 0.8   | 16.4     | 15.2 | 0.8   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 168             | 23.8                | 19.4 | 6.3   | 27.4    | 22.1 | 6.2   | 29.8     | 24.6 | 5.7   |
| Congestive Heart Failure.....              | 120             | 21.7                | 14.4 | 5.3   | 28.3    | 23.4 | 5.1   | 32.5     | 30.0 | 4.6   |
| Pneumonia/Influenza.....                   | 138             | 14.5                | 13.9 | 3.4   | 21.0    | 19.6 | 3.8   | 25.4     | 23.4 | 4.2   |
| Chronic Obstructive Pulmonary Disease..... | 28              | 10.7                | 5.2  | ----- | 10.7    | 9.8  | ----- | 10.7     | 13.6 | ----- |
| Transient Cerebral Ischemia.....           | 35              | 2.9                 | 1.7  | ----- | 5.7     | 3.8  | ----- | 5.7      | 6.1  | ----- |
| Stroke.....                                | 112             | 24.1                | 19.3 | 6.0   | 33.0    | 26.0 | 6.3   | 35.7     | 30.1 | 5.9   |
| Hip Fracture.....                          | 75              | 8.0                 | 6.7  | 3.2   | 10.7    | 12.1 | 3.9   | 16.0     | 16.0 | 4.3   |
| Sepsis.....                                | 46              | 10.9                | 17.5 | ----- | 19.6    | 26.1 | ----- | 26.1     | 31.1 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 91              | 2.2                 | 2.4  | 2.3   | 4.4     | 3.2  | 2.6   | 5.5      | 4.1  | 2.4   |
| Coronary Artery Bypass Graft.....          | 213             | 8.5                 | 4.4  | 2.5   | 10.8    | 6.4  | 2.8   | 11.7     | 7.3  | 3.0   |
| Initial Pacemaker Insertion.....           | 57              | 5.3                 | 3.1  | 3.2   | 7.0     | 6.0  | 5.1   | 12.3     | 8.4  | 5.1   |
| Carotid Endarterectomy.....                | 18              | 0.0                 | 1.9  | ----- | 0.0     | 3.5  | ----- | 0.0      | 5.2  | ----- |
| Hip Replacement/Reconstruction.....        | 90              | 2.2                 | 2.6  | 1.8   | 4.4     | 5.0  | 2.5   | 5.6      | 7.0  | 3.1   |
| Open Reduction of Hip Fracture.....        | 35              | 8.6                 | 6.3  | ----- | 11.4    | 11.7 | ----- | 14.3     | 15.5 | ----- |
| Prostatectomy.....                         | 89              | 0.0                 | 0.9  | 1.4   | 2.2     | 2.3  | 1.6   | 2.2      | 3.8  | 2.4   |
| Cholecystectomy.....                       | 93              | 1.1                 | 2.3  | 1.7   | 2.2     | 4.6  | 2.5   | 5.4      | 6.5  | 2.6   |
| Hysterectomy.....                          | 1               | 0.0                 | 0.2  | ----- | 0.0     | 0.4  | ----- | 0.0      | 0.6  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (\*) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# ST JOSEPH HOSPITAL

Medicare Provider Number: 180010

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

|                               |            |
|-------------------------------|------------|
| Average age at admission..... | 72.0 years |
| Proportion female.....        | 52.9 %     |

### ADMISSION SOURCES/TYPES:

|                                                |        |
|------------------------------------------------|--------|
| Referred by personal or HMO physician.....     | 97.8 % |
| Transferred from skilled nursing facility..... | 0.0 %  |
| Admitted for elective procedure.....           | 47.2 % |
| Admitted for emergency.....                    | 48.3 % |

### COMORBIDITIES:

|                                     |        |
|-------------------------------------|--------|
| Cancer.....                         | 10.8 % |
| Chronic cardiovascular disease..... | 45.4 % |
| Chronic liver disease.....          | 1.1 %  |
| Chronic renal disease.....          | 3.1 %  |
| Chronic pulmonary disease.....      | 20.2 % |
| Cerebrovascular degeneration.....   | 4.2 %  |
| Diabetes mellitus.....              | 8.3 %  |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

|                     |        |
|---------------------|--------|
| County/City .....   | 27.4%  |
| State .....         | 69.2%  |
| Outside State ..... | 3.4%   |
| Total .....         | 100.0% |

### MEDICARE AVERAGE LENGTH OF STAY:

|                |          |
|----------------|----------|
| Hospital ..... | 9.9 Days |
| State .....    | 8.2 Days |
| National ..... | 8.6 Days |

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

|                            |        |
|----------------------------|--------|
| Total Beds .....           | 468    |
| Occupancy Rate .....       | 69.0 % |
| Ownership/Control.....     | Church |
| Medicare Discharges .....  | 46.0 % |
| Case Mix Index (CMI) ..... | 1.6858 |

### STAFFING:

|                                                            |        |
|------------------------------------------------------------|--------|
| Total Number of Physicians.....                            | 239    |
| Percent of Physicians Board<br>Certified Specialists ..... | 92.1 % |
| Medical Residents/Interns .....                            | 0      |
| Registered Nurses.....                                     | 459    |
| Licensed Practical Nurses .....                            | 44     |

### SPECIALTY SERVICES:

|                                       |     |
|---------------------------------------|-----|
| Burn Unit .....                       | No  |
| Cardiac Intensive Care .....          | Yes |
| Comprehensive Geriatric .....         | Yes |
| Hospice Care .....                    | No  |
| Medical/Surgical Intensive Care ..... | Yes |
| Organ/Tissue Transplant .....         | Yes |
| Other Intensive Care .....            | No  |
| Trauma Center .....                   | No  |

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

|                           |     |
|---------------------------|-----|
| Alcohol/Drug .....        | No  |
| Rehabilitation.....       | No  |
| Psychiatric .....         | Yes |
| Medicare Swing Beds ..... | No  |

\*\* Except for CMI

\* Not used in calculating mortality rates



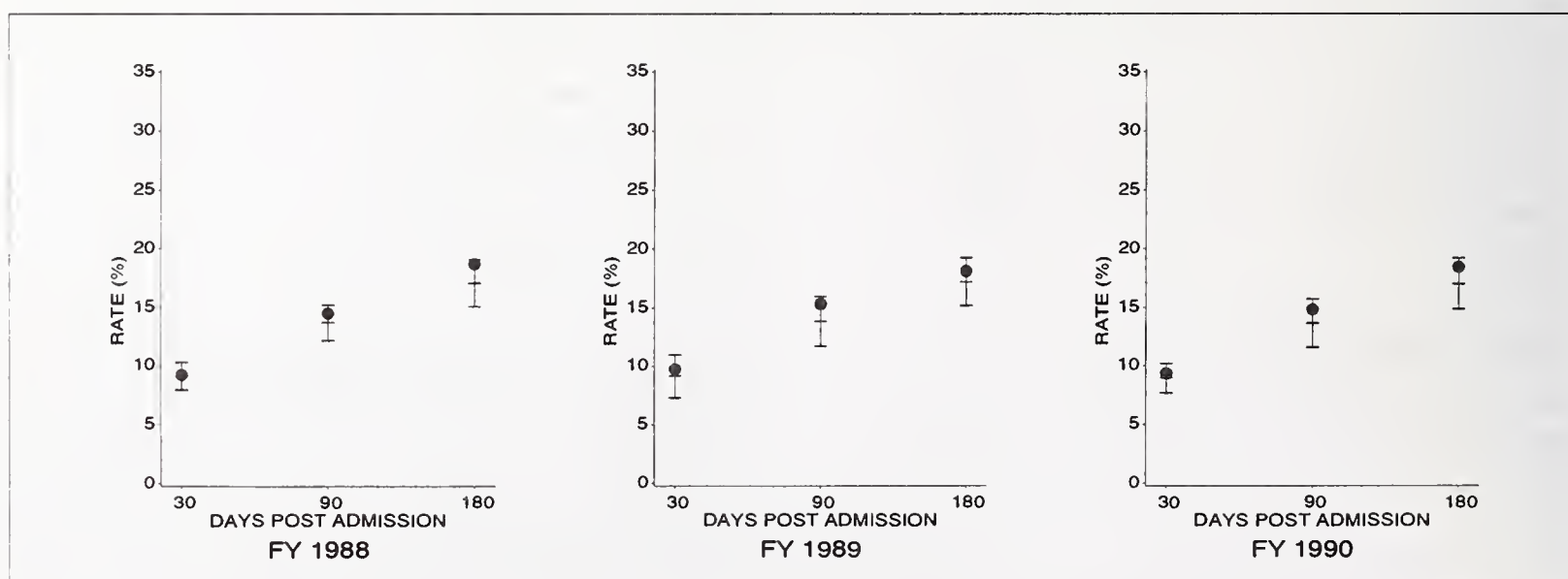
**ST LUKE HOSPITAL**  
85 N GRAND AV  
FORT THOMAS, KY 41075  
Medicare Provider Number: 180001

**FY 1990 MEDICARE HOSPITAL MORTALITY RATES**

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 2425               | 9.3                 | 8.9  | 0.6   | 14.8    | 13.6 | 1.0   | 18.4     | 17.0 | 1.1   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 92                 | 30.4                | 24.5 | 7.8   | 31.5    | 27.1 | 8.2   | 33.7     | 29.6 | 7.0   |
| Congestive Heart Failure.....              | 103                | 17.5                | 15.6 | 3.9   | 28.2    | 24.8 | 6.2   | 36.9     | 31.3 | 7.9   |
| Pneumonia/Influenza.....                   | 147                | 12.9                | 15.5 | 4.8   | 19.0    | 21.3 | 5.7   | 23.1     | 25.1 | 5.4   |
| Chronic Obstructive Pulmonary Disease..... | 76                 | 2.6                 | 6.7  | 3.8   | 5.3     | 12.1 | 5.2   | 10.5     | 16.3 | 5.3   |
| Transient Cerebral Ischemia.....           | 49                 | 4.1                 | 1.6  | ----- | 4.1     | 3.6  | ----- | 6.1      | 5.8  | ----- |
| Stroke.....                                | 86                 | 18.6                | 19.2 | 4.3   | 29.1    | 26.0 | 5.4   | 30.2     | 29.7 | 5.8   |
| Hip Fracture.....                          | 71                 | 2.8                 | 5.9  | 3.4   | 5.6     | 10.7 | 5.1   | 7.0      | 14.0 | 5.7   |
| Sepsis.....                                | 19                 | 10.5                | 22.6 | ----- | 26.3    | 29.8 | ----- | 31.6     | 34.5 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 30                 | 3.3                 | 2.2  | ----- | 6.7     | 4.5  | ----- | 6.7      | 6.8  | ----- |
| Carotid Endarterectomy.....                | 20                 | 0.0                 | 0.9  | ----- | 0.0     | 1.8  | ----- | 0.0      | 2.8  | ----- |
| Hip Replacement/Reconstruction.....        | 36                 | 5.6                 | 3.5  | ----- | 8.3     | 6.5  | ----- | 8.3      | 8.6  | ----- |
| Open Reduction of Hip Fracture.....        | 11                 | 0.0                 | 5.1  | ----- | 9.1     | 9.7  | ----- | 9.1      | 13.3 | ----- |
| Prostatectomy.....                         | 67                 | 1.5                 | 0.8  | 1.7   | 1.5     | 1.8  | 2.0   | 1.5      | 3.1  | 2.8   |
| Cholecystectomy.....                       | 29                 | 0.0                 | 2.1  | ----- | 0.0     | 3.9  | ----- | 0.0      | 5.2  | ----- |
| Hysterectomy.....                          | 17                 | 0.0                 | 0.3  | ----- | 0.0     | 0.7  | ----- | 0.0      | 1.1  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

**OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD)  
FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES**



**ST LUKE HOSPITAL**  
Medicare Provider Number: 180001

**FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES**

**DEMOGRAPHICS:**

Average age at admission..... 74.0 years  
Proportion female..... 57.9 %

**ADMISSION SOURCES/TYPES:**

Referred by personal or HMO physician..... 36.6 %  
Transferred from skilled nursing facility..... 0.1 %  
Admitted for elective procedure..... 12.1 %  
Admitted for emergency..... 61.5 %

**COMORBIDITIES:**

Cancer..... 8.6 %  
Chronic cardiovascular disease..... 32.4 %  
Chronic liver disease..... 0.9 %  
Chronic renal disease..... 1.9 %  
Chronic pulmonary disease..... 13.6 %  
Cerebrovascular degeneration..... 4.7 %  
Diabetes mellitus..... 6.8 %

**ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\***

**ORIGIN OF MEDICARE PATIENT ADMISSION:**

County/City ..... 78.3%  
State ..... 17.9%  
Outside State ..... 3.8%  
Total ..... 100.0%

**MEDICARE AVERAGE LENGTH OF STAY:**

Hospital ..... 9.2 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

**HOSPITAL CHARACTERISTICS\***

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

**PROFILE:**

Total Beds ..... 254  
Occupancy Rate ..... 68.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 36.9 %  
Case Mix Index (CMI) ..... 1.1340

**STAFFING:**

Total Number of Physicians..... 110  
Percent of Physicians Board  
Certified Specialists..... 93.6 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 289  
Licensed Practical Nurses..... 51

**SPECIALTY SERVICES:**

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

**OTHER SPECIALTY/HOSPITAL-BASED SERVICES:**

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# ST LUKE HOSPITAL WEST

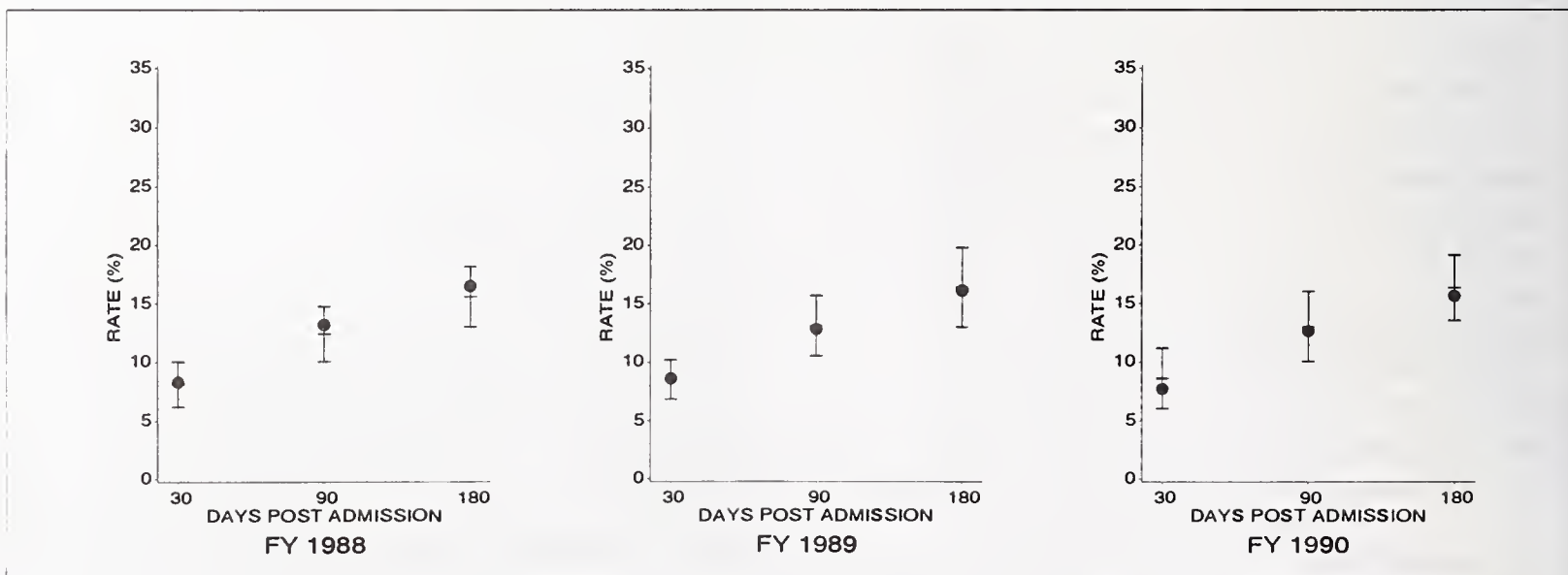
7380 TURFWAY RD  
FLORENCE, KY 41042  
Medicare Provider Number: 180045

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1424            | 7.7                 | 8.6  | 1.3   | 12.6    | 13.0 | 1.5   | 15.6     | 16.3 | 1.4   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 43              | 23.3                | 28.1 | ----- | 25.6    | 30.9 | ----- | 27.9     | 33.5 | ----- |
| Congestive Heart Failure.....              | 72              | 16.7                | 15.1 | 4.4   | 26.4    | 23.8 | 5.5   | 34.7     | 30.1 | 7.0   |
| Pneumonia/Influenza.....                   | 89              | 12.4                | 15.0 | 5.1   | 18.0    | 20.3 | 5.6   | 20.2     | 24.1 | 6.5   |
| Chronic Obstructive Pulmonary Disease..... | 41              | 12.2                | 4.4  | ----- | 14.6    | 8.4  | ----- | 19.5     | 11.8 | ----- |
| Transient Cerebral Ischemia.....           | 28              | 0.0                 | 1.5  | ----- | 7.1     | 3.4  | ----- | 10.7     | 5.6  | ----- |
| Stroke.....                                | 61              | 13.1                | 20.1 | 8.7   | 19.7    | 27.4 | 9.8   | 23.0     | 31.5 | 9.1   |
| Hip Fracture.....                          | 49              | 2.0                 | 6.5  | ----- | 6.1     | 11.6 | ----- | 10.2     | 15.1 | ----- |
| Sepsis.....                                | 4               | 0.0                 | 25.6 | ----- | 0.0     | 31.9 | ----- | 0.0      | 35.8 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 15              | 0.0                 | 3.4  | ----- | 0.0     | 6.7  | ----- | 0.0      | 10.0 | ----- |
| Carotid Endarterectomy.....                | 3               | 33.3                | 1.6  | ----- | 66.7    | 3.2  | ----- | 66.7     | 4.7  | ----- |
| Hip Replacement/Reconstruction.....        | 28              | 0.0                 | 4.2  | ----- | 3.6     | 7.7  | ----- | 3.6      | 10.1 | ----- |
| Open Reduction of Hip Fracture.....        | 12              | 0.0                 | 7.1  | ----- | 8.3     | 13.2 | ----- | 16.7     | 17.8 | ----- |
| Prostatectomy.....                         | 30              | 0.0                 | 1.3  | ----- | 3.3     | 3.0  | ----- | 3.3      | 5.0  | ----- |
| Cholecystectomy.....                       | 35              | 2.9                 | 3.5  | ----- | 14.3    | 6.2  | ----- | 20.0     | 8.0  | ----- |
| Hysterectomy.....                          | 2               | 0.0                 | 0.3  | ----- | 0.0     | 0.9  | ----- | 0.0      | 1.6  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





## ST LUKE HOSPITAL WEST

Medicare Provider Number: 180045

### FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

#### DEMOGRAPHICS:

Average age at admission..... 73.8 years  
Proportion female..... 58.6 %

#### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 38.7 %  
Transferred from skilled nursing facility..... 0.8 %  
Admitted for elective procedure..... 10.0 %  
Admitted for emergency..... 55.7 %

#### COMORBIDITIES:

Cancer..... 5.8 %  
Chronic cardiovascular disease..... 39.5 %  
Chronic liver disease..... 1.0 %  
Chronic renal disease..... 2.7 %  
Chronic pulmonary disease..... 12.6 %  
Cerebrovascular degeneration..... 3.7 %  
Diabetes mellitus..... 4.2 %

### ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

#### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 46.7%  
State ..... 49.2%  
Outside State ..... 4.1 %  
Total ..... 100.0%

#### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 9.2 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

### HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

#### PROFILE:

Total Beds ..... 161  
Occupancy Rate ..... 69.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges .....(Not Available)  
Case Mix Index (CMI) ..... 1.1718

#### STAFFING:

Total Number of Physicians..... 245  
Percent of Physicians Board  
Certified Specialists ..... 82.4 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 93  
Licensed Practical Nurses ..... 46

#### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

#### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# STS MARY & ELIZABETH HOSPITAL

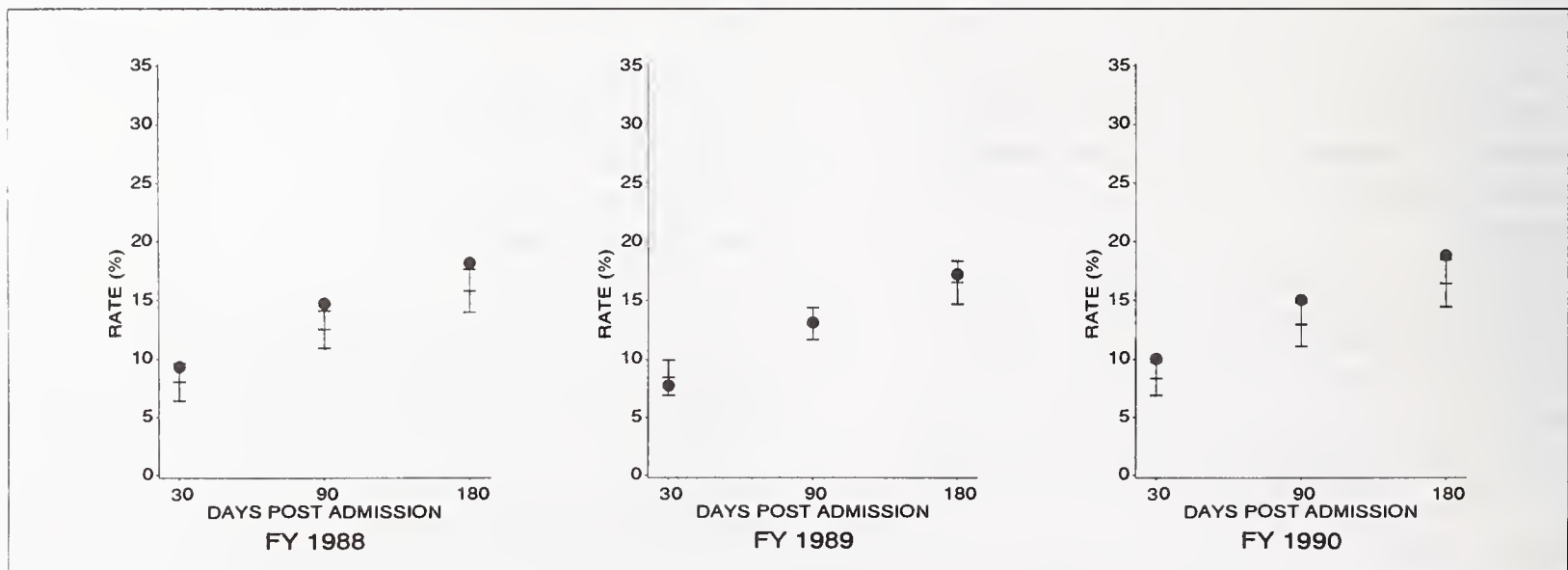
1850 BLUEGRASS AV  
LOUISVILLE, KY 40215  
Medicare Provider Number: 180037

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 2633            | 10.0                | 8.3  | 0.7   | 15.0    | 12.9 | 0.9   | 18.8     | 16.4 | 1.0   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 69              | 30.4                | 21.5 | 9.3   | 37.7    | 24.7 | 9.5   | 37.7     | 27.4 | 9.2   |
| Congestive Heart Failure.....              | 185             | 16.8                | 14.3 | 5.0   | 26.5    | 23.5 | 4.8   | 29.2     | 30.2 | 5.2   |
| Pneumonia/Influenza.....                   | 97              | 14.4                | 13.5 | 3.5   | 22.7    | 18.8 | 4.5   | 28.9     | 22.4 | 5.7   |
| Chronic Obstructive Pulmonary Disease..... | 86              | 2.3                 | 3.9  | 2.4   | 10.5    | 7.9  | 4.0   | 14.0     | 11.6 | 4.0   |
| Transient Cerebral Ischemia.....           | 54              | 1.9                 | 1.5  | 1.7   | 1.9     | 3.5  | 3.0   | 3.7      | 5.9  | 3.9   |
| Stroke.....                                | 112             | 18.8                | 15.5 | 6.2   | 25.9    | 20.8 | 8.5   | 31.3     | 24.3 | 8.8   |
| Hip Fracture.....                          | 54              | 14.8                | 6.2  | 5.3   | 14.8    | 10.8 | 5.1   | 14.8     | 14.0 | 5.6   |
| Sepsis.....                                | 22              | 31.8                | 23.5 | ----- | 31.8    | 30.8 | ----- | 40.9     | 35.4 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 29              | 6.9                 | 3.8  | ----- | 10.3    | 7.5  | ----- | 10.3     | 10.9 | ----- |
| Carotid Endarterectomy.....                | 14              | 0.0                 | 1.4  | ----- | 0.0     | 2.6  | ----- | 7.1      | 3.7  | ----- |
| Hip Replacement/Reconstruction.....        | 38              | 2.6                 | 3.7  | ----- | 2.6     | 6.9  | ----- | 2.6      | 9.4  | ----- |
| Open Reduction of Hip Fracture.....        | 25              | 16.0                | 6.1  | ----- | 16.0    | 11.0 | ----- | 16.0     | 14.5 | ----- |
| Prostatectomy.....                         | 70              | 2.9                 | 1.1  | 2.0   | 7.1     | 2.7  | 4.3   | 10.0     | 4.5  | 5.7   |
| Cholecystectomy.....                       | 76              | 3.9                 | 2.0  | 2.8   | 7.9     | 3.9  | 3.8   | 10.5     | 5.5  | 4.2   |
| Hysterectomy.....                          | 10              | 0.0                 | 0.2  | ----- | 0.0     | 0.5  | ----- | 0.0      | 0.8  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# STS MARY & ELIZABETH HOSPITAL

Medicare Provider Number: 180037

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 74.4 years  
Proportion female..... 58.3 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 98.0 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 40.7 %  
Admitted for emergency..... 57.3 %

### COMORBIDITIES:

Cancer..... 6.3 %  
Chronic cardiovascular disease..... 42.9 %  
Chronic liver disease..... 1.2 %  
Chronic renal disease..... 4.4 %  
Chronic pulmonary disease..... 18.9 %  
Cerebrovascular degeneration..... 2.5 %  
Diabetes mellitus..... 6.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 89.1%  
State ..... 8.2%  
Outside State ..... 2.7%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 9.1 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 331  
Occupancy Rate ..... 84.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 56.3 %  
Case Mix Index (CMI) ..... 1.3145

### STAFFING:

Total Number of Physicians..... 139  
Percent of Physicians Board  
Certified Specialists..... 70.5 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 171  
Licensed Practical Nurses ..... 10

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



# T J SAMSON COMMUNITY HOSPITAL

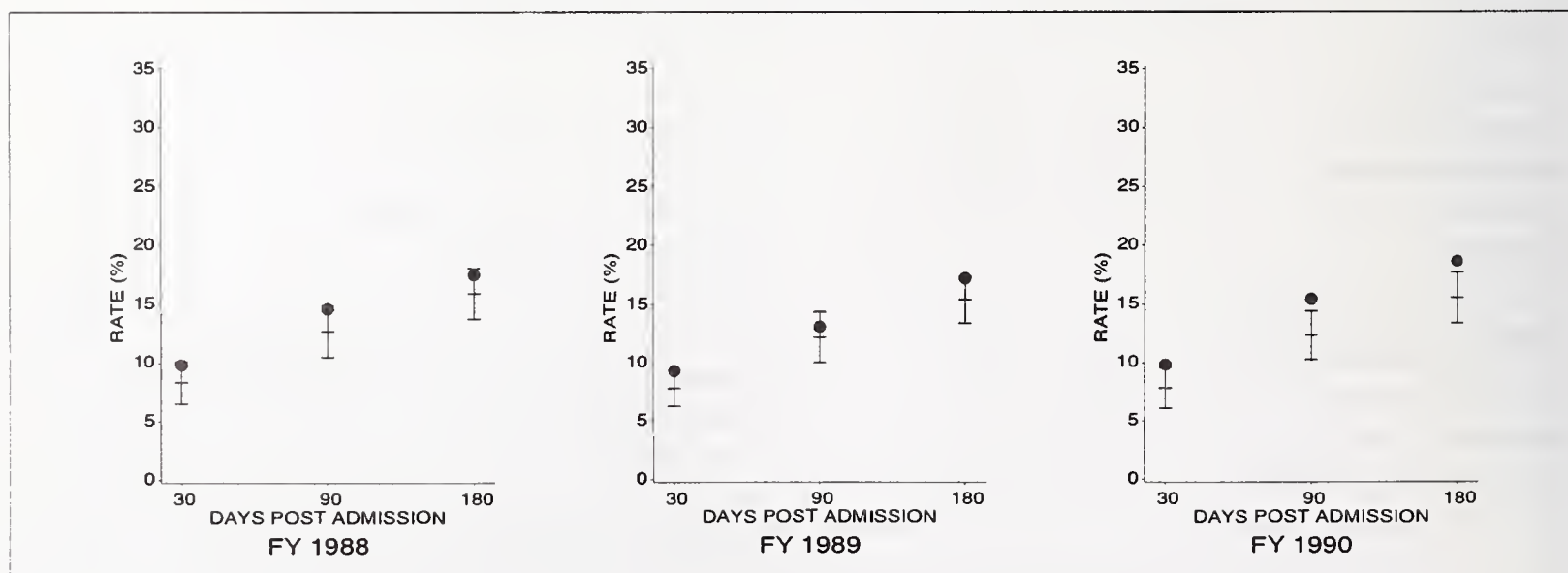
N RACE ST, BOX 257  
GLASGOW, KY 42141  
Medicare Provider Number: 180017

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1970               | 9.8                 | 7.8  | 0.9   | 15.4    | 12.3 | 1.0   | 18.6     | 15.5 | 1.1   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 60                 | 31.7                | 22.5 | 7.0   | 33.3    | 26.0 | 6.9   | 36.7     | 28.8 | 7.0   |
| Congestive Heart Failure.....              | 98                 | 17.3                | 13.3 | 5.4   | 22.4    | 21.2 | 4.7   | 26.5     | 26.9 | 4.7   |
| Pneumonia/Influenza.....                   | 100                | 15.0                | 14.4 | 4.4   | 24.0    | 20.4 | 7.6   | 28.0     | 24.2 | 7.1   |
| Chronic Obstructive Pulmonary Disease..... | 53                 | 9.4                 | 5.8  | 6.5   | 13.2    | 11.3 | 7.2   | 20.8     | 16.1 | 6.2   |
| Transient Cerebral Ischemia.....           | 36                 | 0.0                 | 2.7  | ----- | 11.1    | 5.9  | ----- | 16.7     | 9.2  | ----- |
| Stroke.....                                | 64                 | 23.4                | 15.6 | 6.0   | 28.1    | 22.3 | 6.6   | 35.9     | 26.0 | 7.5   |
| Hip Fracture.....                          | 94                 | 6.4                 | 5.8  | 2.8   | 10.6    | 10.5 | 3.2   | 10.6     | 14.1 | 3.9   |
| Sepsis.....                                | 21                 | 28.6                | 20.5 | ----- | 28.6    | 28.0 | ----- | 33.3     | 31.8 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 3                  | 0.0                 | 2.3  | ----- | 33.3    | 4.4  | ----- | 33.3     | 6.5  | ----- |
| Carotid Endarterectomy.....                | 21                 | 4.8                 | 1.7  | ----- | 9.5     | 3.2  | ----- | 14.3     | 4.6  | ----- |
| Hip Replacement/Reconstruction.....        | 56                 | 1.8                 | 3.1  | 2.9   | 5.4     | 6.0  | 4.9   | 5.4      | 8.2  | 5.4   |
| Open Reduction of Hip Fracture.....        | 46                 | 10.9                | 5.8  | ----- | 13.0    | 10.7 | ----- | 13.0     | 14.5 | ----- |
| Prostatectomy.....                         | 28                 | 0.0                 | 0.9  | ----- | 3.6     | 2.1  | ----- | 7.1      | 3.7  | ----- |
| Cholecystectomy.....                       | 40                 | 0.0                 | 2.2  | ----- | 2.5     | 4.0  | ----- | 5.0      | 5.5  | ----- |
| Hysterectomy.....                          | 23                 | 0.0                 | 0.5  | ----- | 0.0     | 1.0  | ----- | 0.0      | 1.5  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# T J SAMSON COMMUNITY HOSPITAL

Medicare Provider Number: 180017

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 73.3 years  
Proportion female..... 56.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 46.1 %  
Transferred from skilled nursing facility..... 0.7 %  
Admitted for elective procedure..... 5.3 %  
Admitted for emergency..... 8.7 %

### COMORBIDITIES:

Cancer..... 6.2 %  
Chronic cardiovascular disease..... 31.2 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 1.6 %  
Chronic pulmonary disease..... 20.3 %  
Cerebrovascular degeneration..... 4.2 %  
Diabetes mellitus..... 7.4 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 51.7%  
State ..... 46.4%  
Outside State ..... 1.9%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 9.3 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 218  
Occupancy Rate ..... 66.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 37.1 %  
Case Mix Index (CMI) ..... 1.2633

### STAFFING:

Total Number of Physicians..... 38  
Percent of Physicians Board  
Certified Specialists..... 73.7 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 88  
Licensed Practical Nurses ..... 152

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# TAYLOR COUNTY HOSPITAL

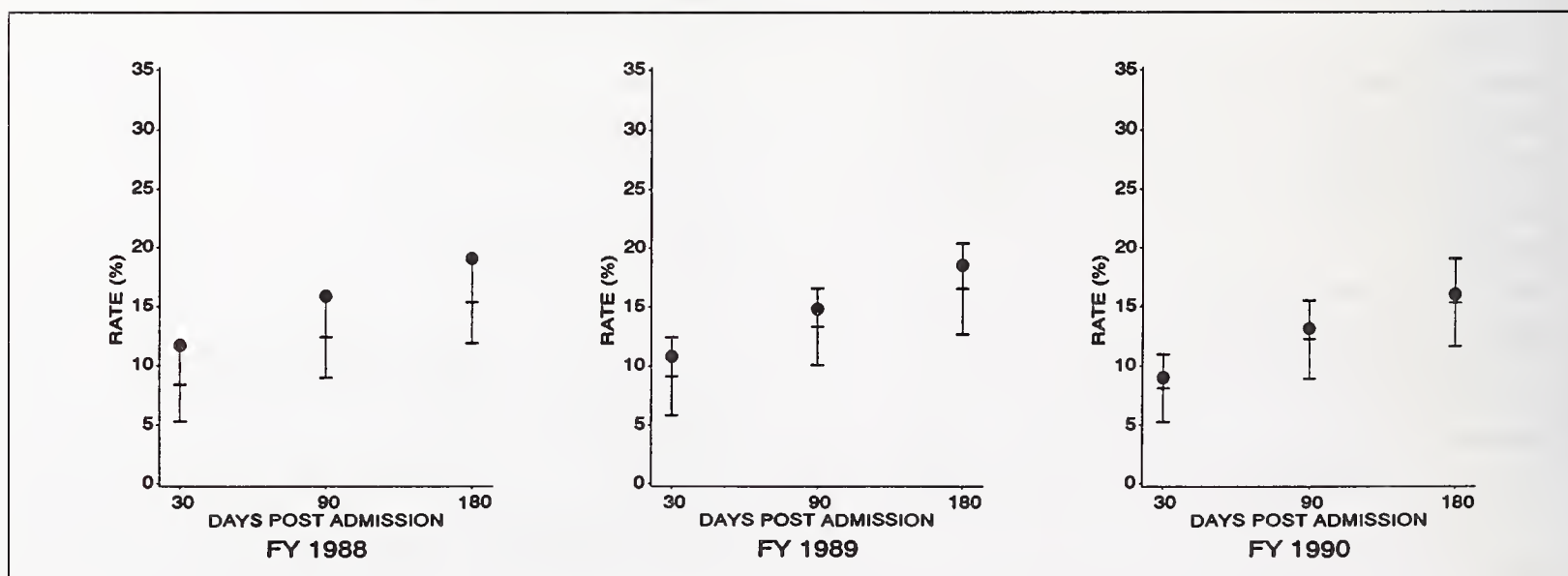
1700 OLD LEBANON RD  
CAMPBELLSVILLE, KY 42718  
Medicare Provider Number: 180087

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 725             | 9.0                 | 8.1  | 1.4   | 13.1    | 12.2 | 1.7   | 16.0     | 15.3 | 1.9   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 30              | 23.3                | 23.8 | ----- | 30.0    | 26.3 | ----- | 30.0     | 29.1 | ----- |
| Congestive Heart Failure.....              | 27              | 11.1                | 12.6 | ----- | 22.2    | 20.3 | ----- | 29.6     | 25.7 | ----- |
| Pneumonia/Influenza.....                   | 36              | 13.9                | 13.8 | ----- | 13.9    | 18.9 | ----- | 16.7     | 22.4 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 20              | 0.0                 | 4.7  | ----- | 5.0     | 9.0  | ----- | 5.0      | 12.8 | ----- |
| Transient Cerebral ischemia.....           | 11              | 0.0                 | 1.2  | ----- | 0.0     | 2.7  | ----- | 0.0      | 4.5  | ----- |
| Stroke.....                                | 17              | 17.6                | 16.9 | ----- | 23.5    | 23.5 | ----- | 35.3     | 27.6 | ----- |
| Hip Fracture.....                          | 19              | 5.3                 | 4.7  | ----- | 10.5    | 8.7  | ----- | 10.5     | 11.5 | ----- |
| Sepsis.....                                | 5               | 40.0                | 38.0 | ----- | 80.0    | 53.1 | ----- | 80.0     | 58.6 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 2               | 0.0                 | 4.5  | ----- | 0.0     | 7.4  | ----- | 0.0      | 10.6 | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 15              | 6.7                 | 4.1  | ----- | 13.3    | 8.0  | ----- | 13.3     | 11.0 | ----- |
| Prostatectomy.....                         | 55              | 0.0                 | 0.7  | ----- | 0.0     | 1.5  | ----- | 0.0      | 2.6  | ----- |
| Cholecystectomy.....                       | 15              | 0.0                 | 3.0  | ----- | 0.0     | 5.2  | ----- | 6.7      | 6.6  | ----- |
| Hysterectomy.....                          | 9               | 0.0                 | 0.5  | ----- | 0.0     | 0.9  | ----- | 0.0      | 1.3  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# TAYLOR COUNTY HOSPITAL

Medicare Provider Number: 180087

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 73.8 years  
Proportion female..... 48.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 78.6 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.3 %  
Admitted for emergency..... 49.0 %

### COMORBIDITIES:

Cancer..... 6.3 %  
Chronic cardiovascular disease..... 27.4 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 2.6 %  
Chronic pulmonary disease..... 8.7 %  
Cerebrovascular degeneration..... 3.6 %  
Diabetes mellitus..... 4.6 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 61.1%  
State ..... 37.6%  
Outside State ..... 1.3%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.7 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 90  
Occupancy Rate ..... 40.0 %  
Ownership/Control..... District/Authority  
Medicare Discharges ..... 35.6 %  
Case Mix Index (CMI) ..... 1.0094

### STAFFING:

Total Number of Physicians..... 21  
Percent of Physicians Board  
Certified Specialists ..... 47.6 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 56  
Licensed Practical Nurses ..... 12

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# THE MEDICAL CENTER AT BOWLING GREEN

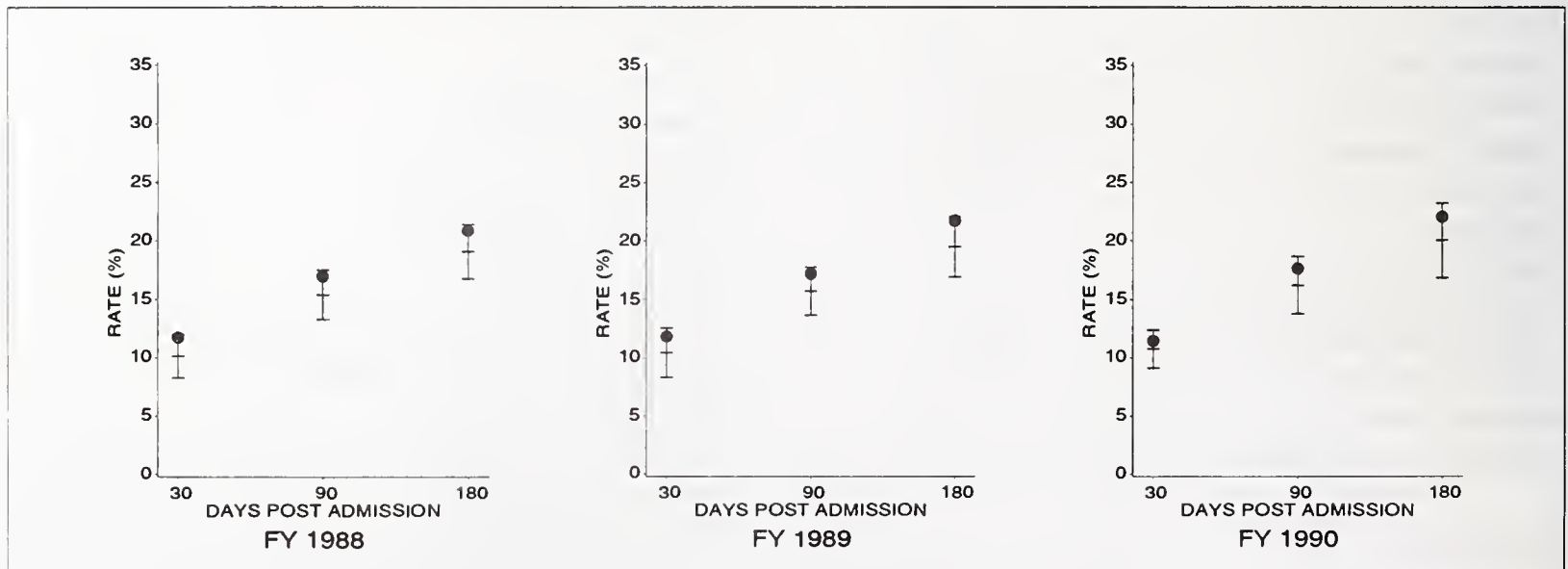
250 PARK ST, BOX 56  
BOWLING GREEN, KY 42102  
Medicare Provider Number: 180013

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1974            | 11.4                | 10.7 | 0.8   | 17.6    | 16.2 | 1.2   | 22.0     | 20.0 | 1.6   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 73              | 32.9                | 28.2 | 6.5   | 38.4    | 31.2 | 7.8   | 39.7     | 34.1 | 7.2   |
| Congestive Heart Failure.....              | 86              | 14.0                | 13.8 | 3.8   | 26.7    | 22.1 | 5.6   | 30.2     | 28.3 | 5.2   |
| Pneumonia/Influenza.....                   | 88              | 12.5                | 14.3 | 4.2   | 18.2    | 19.8 | 5.1   | 22.7     | 23.5 | 4.6   |
| Chronic Obstructive Pulmonary Disease..... | 31              | 6.5                 | 7.1  | ----- | 9.7     | 12.9 | ----- | 25.8     | 17.6 | ----- |
| Transient Cerebral Ischemia.....           | 22              | 0.0                 | 2.4  | ----- | 4.5     | 5.1  | ----- | 22.7     | 8.2  | ----- |
| Stroke.....                                | 79              | 25.3                | 20.6 | 7.3   | 35.4    | 27.1 | 8.6   | 36.7     | 31.1 | 7.3   |
| Hip Fracture.....                          | 54              | 11.1                | 7.5  | 4.7   | 13.0    | 12.6 | 4.8   | 16.7     | 15.9 | 5.1   |
| Sepsis.....                                | 31              | 32.3                | 22.3 | ----- | 38.7    | 32.3 | ----- | 41.9     | 37.6 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 10              | 0.0                 | 7.5  | ----- | 0.0     | 8.8  | ----- | 0.0      | 10.0 | ----- |
| Coronary Artery Bypass Graft.....          | 22              | 9.1                 | 4.9  | ----- | 9.1     | 6.8  | ----- | 9.1      | 7.8  | ----- |
| Initial Pacemaker Insertion.....           | 15              | 0.0                 | 3.1  | ----- | 6.7     | 6.7  | ----- | 6.7      | 10.1 | ----- |
| Carotid Endarterectomy.....                | 9               | 0.0                 | 2.1  | ----- | 0.0     | 3.7  | ----- | 0.0      | 5.3  | ----- |
| Hip Replacement/Reconstruction.....        | 39              | 7.7                 | 4.8  | ----- | 7.7     | 8.8  | ----- | 7.7      | 11.9 | ----- |
| Open Reduction of Hip Fracture.....        | 27              | 11.1                | 7.8  | ----- | 14.8    | 13.7 | ----- | 22.2     | 17.3 | ----- |
| Prostatectomy.....                         | 64              | 3.1                 | 1.4  | 2.6   | 6.3     | 3.0  | 4.3   | 7.8      | 4.9  | 5.6   |
| Cholecystectomy.....                       | 27              | 3.7                 | 2.1  | ----- | 7.4     | 4.2  | ----- | 11.1     | 5.8  | ----- |
| Hysterectomy.....                          | 6               | 0.0                 | 3.1  | ----- | 0.0     | 4.9  | ----- | 0.0      | 6.4  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# THE MEDICAL CENTER AT BOWLING GREEN

Medicare Provider Number: 180013

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 72.6 years  
Proportion female..... 52.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 39.7 %  
Transferred from skilled nursing facility..... 0.4 %  
Admitted for elective procedure..... 3.5 %  
Admitted for emergency..... 54.6 %

### COMORBIDITIES:

Cancer..... 7.5 %  
Chronic cardiovascular disease..... 43.8 %  
Chronic liver disease..... 0.7 %  
Chronic renal disease..... 3.2 %  
Chronic pulmonary disease..... 21.9 %  
Cerebrovascular degeneration..... 4.9 %  
Diabetes mellitus..... 13.9 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 45.8%  
State ..... 52.2%  
Outside State ..... 2.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 9.2 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 350  
Occupancy Rate ..... 58.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 32.9 %  
Case Mix Index (CMI) ..... 1.3273

### STAFFING:

Total Number of Physicians..... 130  
Percent of Physicians Board  
Certified Specialists..... 70.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 294  
Licensed Practical Nurses ..... 41

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... Yes  
Trauma Center ..... Yes

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# THE METHODIST HOSPITAL OF KENTUCKY INC

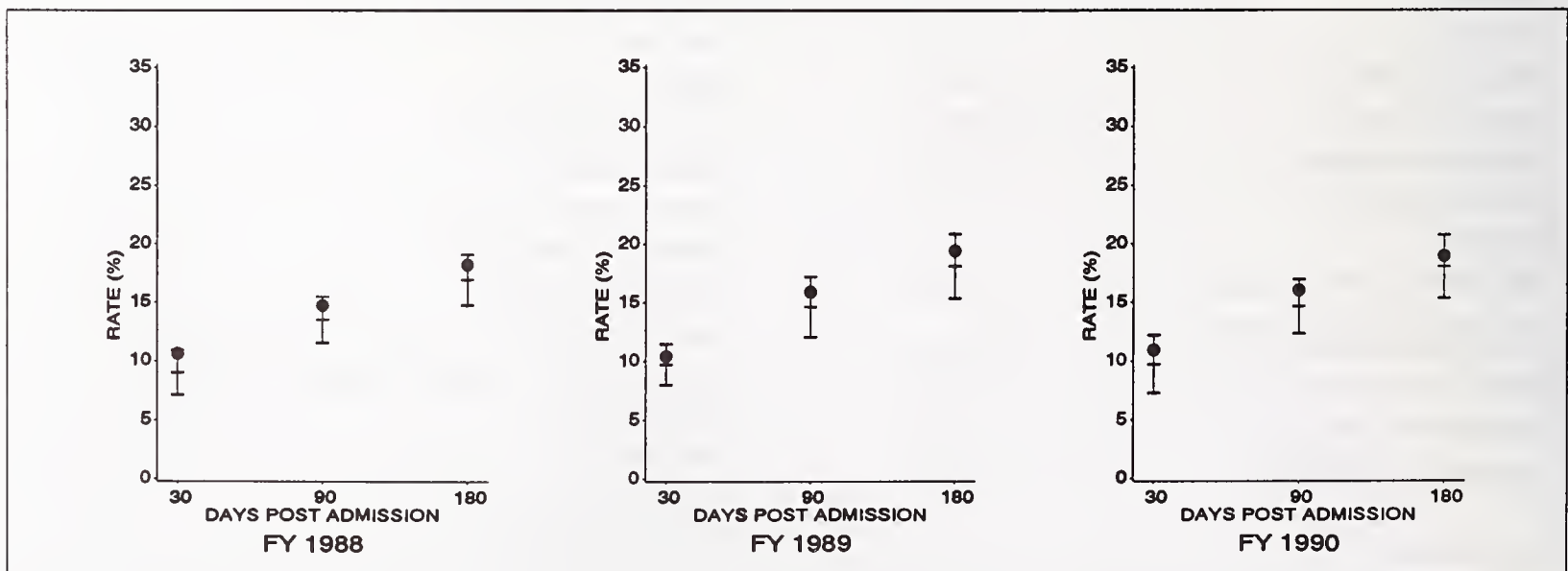
911 S BYPASS  
PIKEVILLE, KY 41501  
Medicare Provider Number: 180044

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1425            | 10.9                | 9.7  | 1.2   | 16.0    | 14.6 | 1.2   | 18.9     | 18.0 | 1.4   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 43              | 34.9                | 27.4 | ----- | 39.5    | 31.2 | ----- | 39.5     | 34.1 | ----- |
| Congestive Heart Failure.....              | 71              | 15.5                | 13.3 | 7.2   | 28.2    | 21.2 | 9.1   | 31.0     | 27.4 | 9.6   |
| Pneumonia/Influenza.....                   | 100             | 22.0                | 16.4 | 7.2   | 29.0    | 22.5 | 7.2   | 32.0     | 26.6 | 7.6   |
| Chronic Obstructive Pulmonary Disease..... | 47              | 0.0                 | 4.2  | ----- | 4.3     | 8.2  | ----- | 4.3      | 11.9 | ----- |
| Transient Cerebral Ischemia.....           | 31              | 6.5                 | 1.9  | ----- | 9.7     | 4.2  | ----- | 9.7      | 6.6  | ----- |
| Stroke.....                                | 55              | 23.6                | 24.3 | 6.2   | 25.5    | 31.7 | 7.4   | 32.7     | 35.8 | 7.4   |
| Hip Fracture.....                          | 43              | 4.7                 | 7.4  | ----- | 9.3     | 12.8 | ----- | 11.6     | 16.4 | ----- |
| Sepsis.....                                | 25              | 36.0                | 27.7 | ----- | 44.0    | 36.4 | ----- | 48.0     | 41.4 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 1               | 0.0                 | 3.2  | ----- | 0.0     | 5.4  | ----- | 0.0      | 7.3  | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 17              | 0.0                 | 5.4  | ----- | 11.8    | 10.3 | ----- | 17.6     | 13.5 | ----- |
| Open Reduction of Hip Fracture.....        | 28              | 3.6                 | 6.9  | ----- | 3.6     | 11.8 | ----- | 3.6      | 15.3 | ----- |
| Prostatectomy.....                         | 29              | 6.9                 | 1.6  | ----- | 6.9     | 3.9  | ----- | 13.8     | 6.7  | ----- |
| Cholecystectomy.....                       | 33              | 0.0                 | 3.4  | ----- | 0.0     | 6.2  | ----- | 0.0      | 8.3  | ----- |
| Hysterectomy.....                          | 11              | 0.0                 | 0.9  | ----- | 0.0     | 1.9  | ----- | 0.0      | 2.8  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# THE METHODIST HOSPITAL OF KENTUCKY INC

Medicare Provider Number: 180044

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 71.7 years  
Proportion female..... 51.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 31.5 %  
Transferred from skilled nursing facility..... 0.9 %  
Admitted for elective procedure..... 3.0 %  
Admitted for emergency..... 91.3 %

### COMORBIDITIES:

Cancer..... 8.8 %  
Chronic cardiovascular disease..... 37.6 %  
Chronic liver disease..... 1.0 %  
Chronic renal disease..... 2.7 %  
Chronic pulmonary disease..... 29.0 %  
Cerebrovascular degeneration..... 2.7 %  
Diabetes mellitus..... 7.4 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 83.3%  
State ..... 13.7%  
Outside State ..... 3.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.0 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 194  
Occupancy Rate ..... 60.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 28.9 %  
Case Mix Index (CMI) ..... 1.1113

### STAFFING:

Total Number of Physicians..... 50  
Percent of Physicians Board  
Certified Specialists ..... 86.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 103  
Licensed Practical Nurses ..... 99

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# TRI COUNTY COMMUNITY HOSPITAL

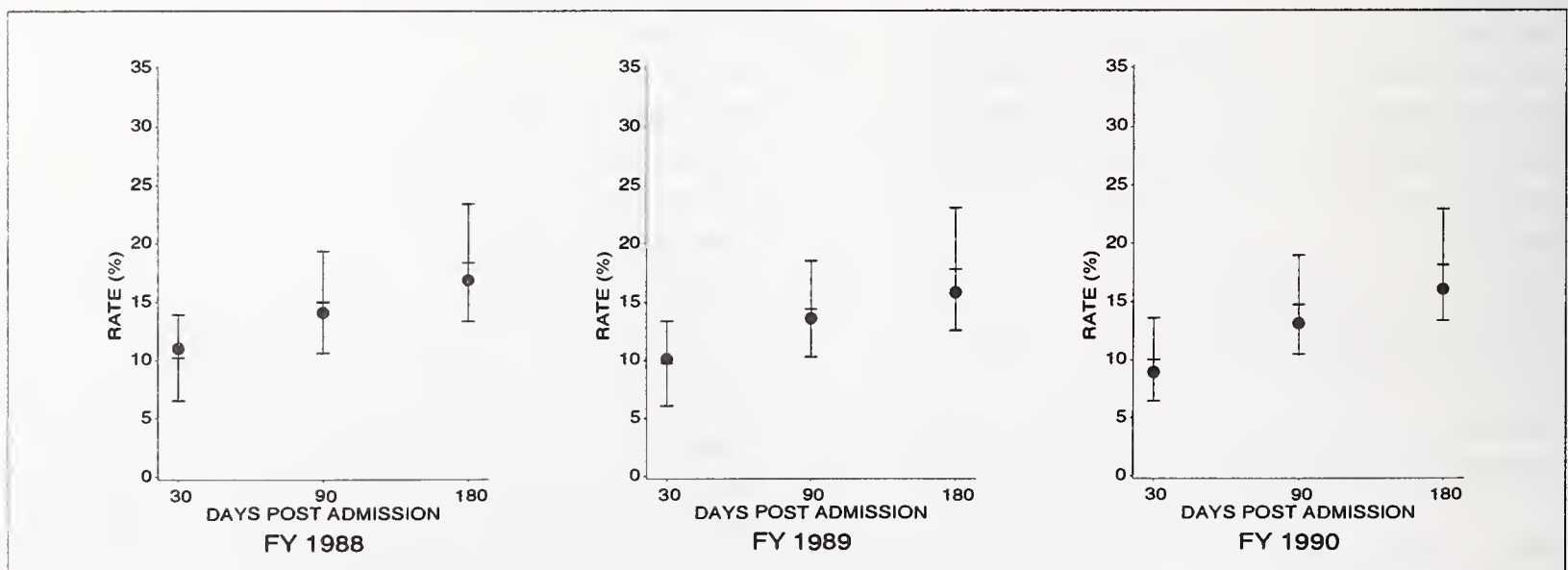
1025 NEW MOODY LANE  
LAGRANGE, KY 40031  
Medicare Provider Number: 180138

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 381             | 8.9                 | 10.0 | 1.8   | 13.1    | 14.7 | 2.1   | 16.0     | 18.1 | 2.4   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 15              | 33.3                | 27.3 | ----- | 33.3    | 31.5 | ----- | 33.3     | 34.6 | ----- |
| Congestive Heart Failure.....              | 11              | 0.0                 | 12.4 | ----- | 9.1     | 19.4 | ----- | 9.1      | 25.0 | ----- |
| Pneumonia/Influenza.....                   | 25              | 8.0                 | 13.3 | ----- | 16.0    | 17.7 | ----- | 20.0     | 20.6 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 18              | 5.6                 | 5.1  | ----- | 11.1    | 9.4  | ----- | 11.1     | 13.1 | ----- |
| Transient Cerebral Ischemia.....           | 5               | 0.0                 | 1.5  | ----- | 0.0     | 3.5  | ----- | 0.0      | 5.7  | ----- |
| Stroke.....                                | 16              | 0.0                 | 17.7 | ----- | 12.5    | 23.2 | ----- | 18.8     | 26.6 | ----- |
| Hip Fracture.....                          | 13              | 7.7                 | 4.4  | ----- | 23.1    | 8.1  | ----- | 23.1     | 11.1 | ----- |
| Sepsis.....                                | 2               | 50.0                | 34.6 | ----- | 50.0    | 43.6 | ----- | 50.0     | 50.2 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 1               | 0.0                 | 0.6  | ----- | 0.0     | 1.3  | ----- | 0.0      | 2.2  | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 6               | 16.7                | 3.5  | ----- | 33.3    | 6.4  | ----- | 33.3     | 8.5  | ----- |
| Open Reduction of Hip Fracture.....        | 5               | 0.0                 | 4.3  | ----- | 20.0    | 8.1  | ----- | 20.0     | 11.1 | ----- |
| Prostatectomy.....                         | 8               | 0.0                 | 1.0  | ----- | 0.0     | 2.4  | ----- | 0.0      | 4.4  | ----- |
| Cholecystectomy.....                       | 6               | 0.0                 | 0.9  | ----- | 0.0     | 1.6  | ----- | 16.7     | 2.1  | ----- |
| Hysterectomy.....                          | 3               | 0.0                 | 0.1  | ----- | 0.0     | 0.1  | ----- | 0.0      | 0.2  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# TRI COUNTY COMMUNITY HOSPITAL

Medicare Provider Number: 180138

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 73.3 years  
Proportion female..... 57.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 31.5 %  
Transferred from skilled nursing facility..... 0.8 %  
Admitted for elective procedure..... 18.4 %  
Admitted for emergency..... 70.3 %

### COMORBIDITIES:

Cancer..... 6.0 %  
Chronic cardiovascular disease..... 33.3 %  
Chronic liver disease..... 0.3 %  
Chronic renal disease..... 2.6 %  
Chronic pulmonary disease..... 20.7 %  
Cerebrovascular degeneration..... 2.9 %  
Diabetes mellitus..... 6.6 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 45.7%  
State ..... 52.4%  
Outside State ..... 1.9%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 7.6 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 88  
Occupancy Rate ..... 64.0 %  
Ownership/Control..... Private, For Profit  
Medicare Discharges ..... 38.3 %  
Case Mix Index (CMI) ..... 1.1985

### STAFFING:

Total Number of Physicians..... 46  
Percent of Physicians Board  
Certified Specialists ..... 95.7 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 69  
Licensed Practical Nurses ..... 1

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# TRIGG COUNTY HOSPITAL

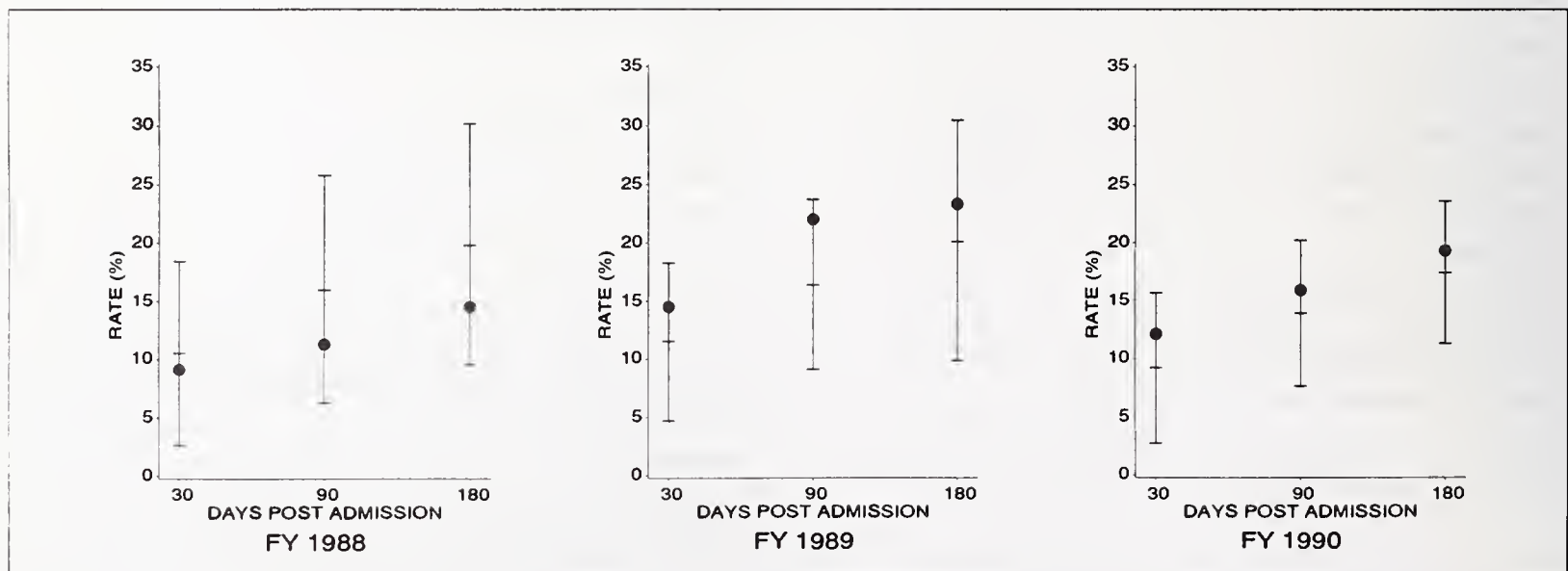
HWY 68, BOX 312  
CADIZ, KY 42211  
Medicare Provider Number: 180033

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 207             | 12.1                | 9.2  | 3.2   | 15.9    | 13.9 | 3.2   | 19.3     | 17.4 | 3.1   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 2               | 0.0                 | 34.6 | ----- | 0.0     | 38.5 | ----- | 0.0      | 43.8 | ----- |
| Congestive Heart Failure.....              | 16              | 18.8                | 14.2 | ----- | 31.3    | 22.9 | ----- | 37.5     | 29.5 | ----- |
| Pneumonia/Influenza.....                   | 39              | 10.3                | 11.2 | ----- | 15.4    | 15.7 | ----- | 17.9     | 18.7 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 4               | 0.0                 | 7.5  | ----- | 0.0     | 13.5 | ----- | 0.0      | 18.6 | ----- |
| Transient Cerebral Ischemia.....           | 2               | 0.0                 | 1.4  | ----- | 0.0     | 3.2  | ----- | 0.0      | 5.4  | ----- |
| Stroke.....                                | 9               | 33.3                | 16.7 | ----- | 33.3    | 21.3 | ----- | 33.3     | 24.4 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 0               |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 2               | 0.0                 | 1.2  | ----- | 0.0     | 1.9  | ----- | 0.0      | 2.5  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (\*) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# TRIGG COUNTY HOSPITAL

Medicare Provider Number: 180033

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.7 years  
Proportion female..... 60.9 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 96.1 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 1.9 %

### COMORBIDITIES:

Cancer..... 6.3 %  
Chronic cardiovascular disease..... 37.2 %  
Chronic liver disease..... 1.0 %  
Chronic renal disease..... 2.9 %  
Chronic pulmonary disease..... 19.8 %  
Cerebrovascular degeneration..... 2.9 %  
Diabetes mellitus..... 8.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 85.5%  
State..... 10.6%  
Outside State..... 3.9%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 4.7 Days  
State..... 8.2 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 29  
Occupancy Rate..... 34.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges..... 57.1 %  
Case Mix Index (CMI)..... 1.0038

### STAFFING:

Total Number of Physicians..... 6  
Percent of Physicians Board  
Certified Specialists..... 50.0 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 12  
Licensed Practical Nurses..... 6

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# UNION COUNTY METHODIST HOSPITAL

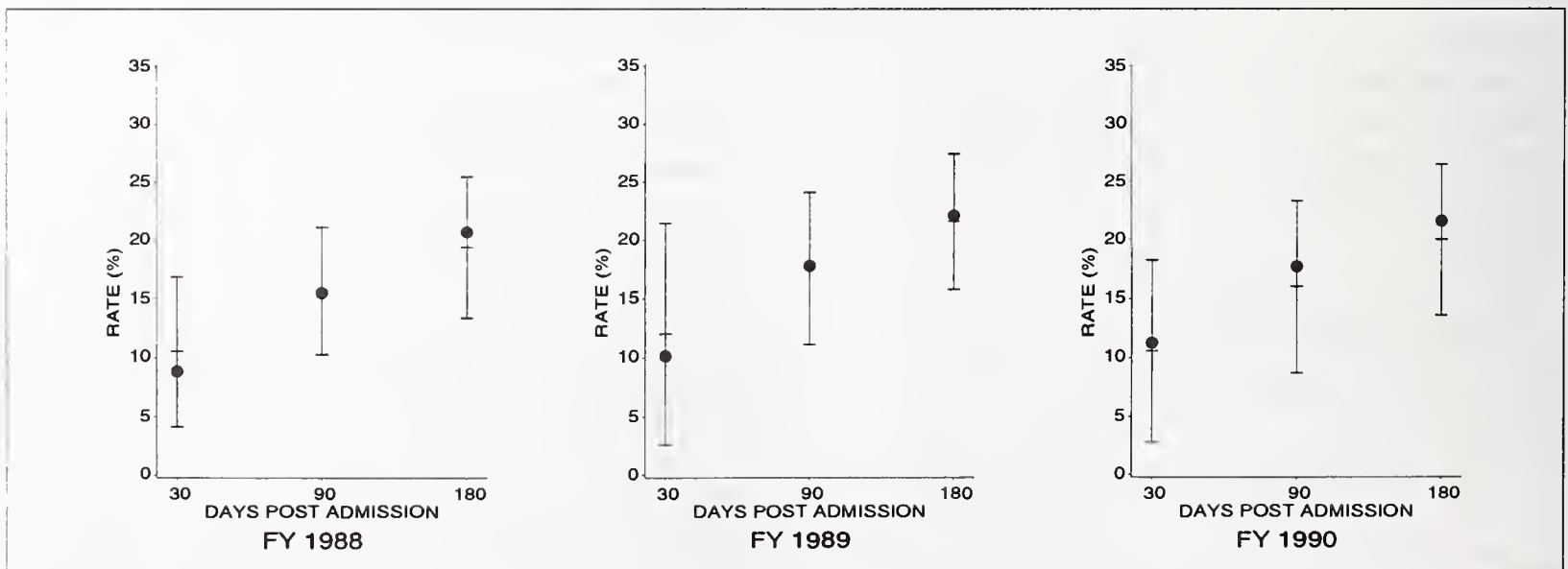
RT 4, BOX 62H  
MORGANFIELD, KY 42437  
Medicare Provider Number: 180122

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 232             | 11.2                | 10.5 | 3.9   | 17.7    | 16.0 | 3.7   | 21.6     | 20.0 | 3.2   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 7               | 42.9                | 26.4 | ----- | 42.9    | 29.2 | ----- | 42.9     | 31.7 | ----- |
| Congestive Heart Failure.....              | 12              | 16.7                | 15.8 | ----- | 16.7    | 25.1 | ----- | 25.0     | 31.4 | ----- |
| Pneumonia/Influenza.....                   | 20              | 30.0                | 15.9 | ----- | 35.0    | 21.3 | ----- | 40.0     | 24.7 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 3               | 0.0                 | 17.7 | ----- | 33.3    | 30.4 | ----- | 33.3     | 36.5 | ----- |
| Transient Cerebral Ischemia.....           | 4               | 0.0                 | 1.4  | ----- | 0.0     | 3.2  | ----- | 25.0     | 5.5  | ----- |
| Stroke.....                                | 12              | 41.7                | 19.9 | ----- | 66.7    | 27.5 | ----- | 75.0     | 31.6 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 3               | 0.0                 | 21.9 | ----- | 0.0     | 30.0 | ----- | 0.0      | 36.6 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 2               | 0.0                 | 2.7  | ----- | 0.0     | 4.5  | ----- | 0.0      | 5.9  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# UNION COUNTY METHODIST HOSPITAL

Medicare Provider Number: 180122

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.0 years  
Proportion female..... 57.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 37.9 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 44.8 %

### COMORBIDITIES:

Cancer..... 6.0 %  
Chronic cardiovascular disease..... 44.0 %  
Chronic liver disease..... 1.7 %  
Chronic renal disease..... 2.6 %  
Chronic pulmonary disease..... 24.6 %  
Cerebrovascular degeneration..... 1.7 %  
Diabetes mellitus..... 15.9 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 90.6%  
State ..... 7.9%  
Outside State ..... 1.5%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.2 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 54  
Occupancy Rate ..... 18.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 49.0 %  
Case Mix Index (CMI) ..... 0.9705

### STAFFING:

Total Number of Physicians..... 12  
Percent of Physicians Board  
Certified Specialists..... 66.7 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 14  
Licensed Practical Nurses ..... 5

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation ..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# UNITED MEDICAL CENTER SHELBYVILLE

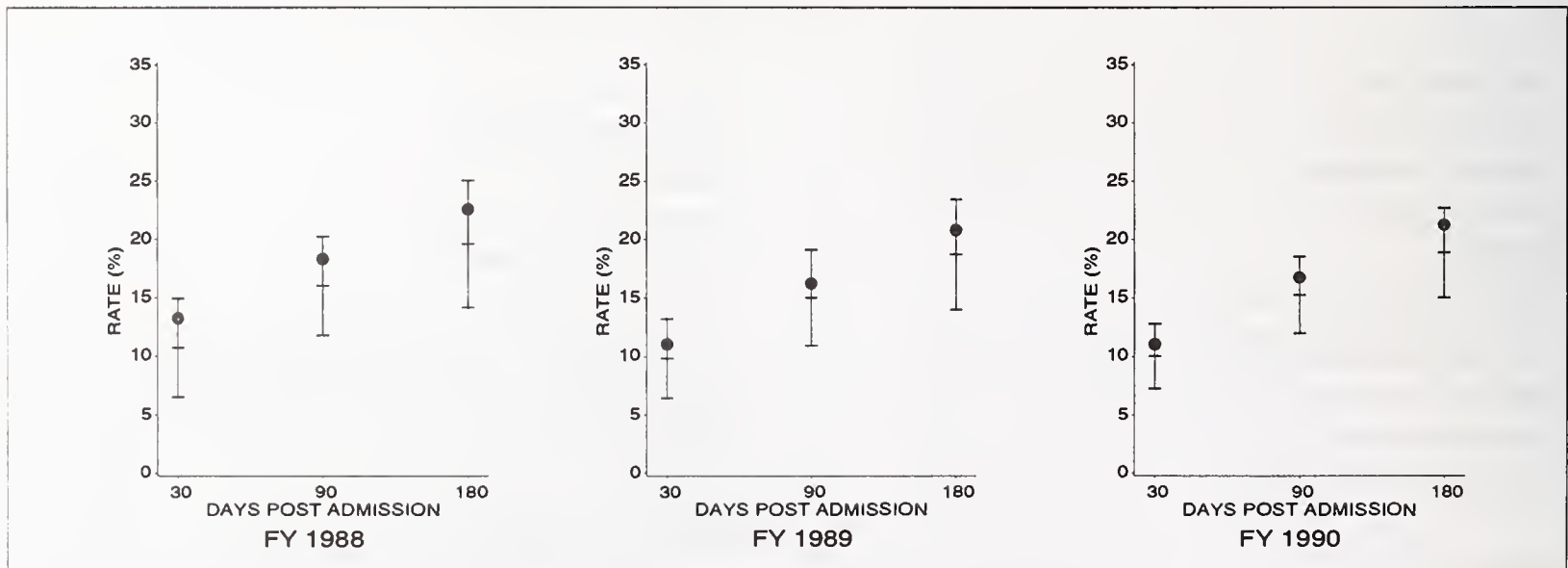
727 HOSPITAL DR, BOX 849  
SHELBYVILLE, KY 40065  
Medicare Provider Number: 180016

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 800                | 11.0                | 10.0 | 1.4   | 16.7    | 15.2 | 1.6   | 21.2     | 18.8 | 1.9   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 19                 | 26.3                | 22.2 | ----- | 26.3    | 24.9 | ----- | 31.6     | 27.4 | ----- |
| Congestive Heart Failure.....              | 44                 | 22.7                | 15.6 | ----- | 31.8    | 25.4 | ----- | 38.6     | 32.2 | ----- |
| Pneumonia/Influenza.....                   | 72                 | 27.8                | 19.2 | 6.9   | 34.7    | 25.8 | 7.4   | 36.1     | 30.3 | 7.9   |
| Chronic Obstructive Pulmonary Disease..... | 26                 | 11.5                | 6.7  | ----- | 19.2    | 11.6 | ----- | 19.2     | 15.3 | ----- |
| Transient Cerebral Ischemia.....           | 17                 | 5.9                 | 1.9  | ----- | 5.9     | 4.2  | ----- | 11.8     | 6.7  | ----- |
| Stroke.....                                | 31                 | 16.1                | 22.9 | ----- | 16.1    | 29.4 | ----- | 29.0     | 33.2 | ----- |
| Hip Fracture.....                          | 30                 | 13.3                | 7.8  | ----- | 23.3    | 13.5 | ----- | 23.3     | 17.1 | ----- |
| Sepsis.....                                | 9                  | 44.4                | 33.6 | ----- | 44.4    | 41.8 | ----- | 44.4     | 46.4 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 6                  | 0.0                 | 1.7  | ----- | 0.0     | 2.8  | ----- | 0.0      | 3.9  | ----- |
| Hip Replacement/Reconstruction.....        | 22                 | 0.0                 | 4.8  | ----- | 9.1     | 9.0  | ----- | 9.1      | 11.8 | ----- |
| Open Reduction of Hip Fracture.....        | 6                  | 33.3                | 8.2  | ----- | 33.3    | 13.8 | ----- | 33.3     | 17.1 | ----- |
| Prostatectomy.....                         | 19                 | 0.0                 | 1.8  | ----- | 0.0     | 4.0  | ----- | 0.0      | 6.7  | ----- |
| Cholecystectomy.....                       | 16                 | 0.0                 | 2.1  | ----- | 0.0     | 3.8  | ----- | 6.3      | 5.3  | ----- |
| Hysterectomy.....                          | 5                  | 0.0                 | 0.2  | ----- | 0.0     | 0.5  | ----- | 0.0      | 0.9  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# UNITED MEDICAL CENTER SHELBYVILLE

Medicare Provider Number: 180016

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.9 years  
Proportion female..... 59.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 47.5 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 53.3 %

### COMORBIDITIES:

Cancer..... 5.1 %  
Chronic cardiovascular disease..... 44.0 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 3.0 %  
Chronic pulmonary disease..... 18.3 %  
Cerebrovascular degeneration..... 3.5 %  
Diabetes mellitus..... 7.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 54.6%  
State..... 44.4%  
Outside State..... 1.0%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 7.4 Days  
State..... 8.2 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 76  
Occupancy Rate..... 55.0 %  
Ownership/Control..... Private, For Profit  
Medicare Discharges..... 51.6 %  
Case Mix Index (CMI)..... 1.2336

### STAFFING:

Total Number of Physicians..... 22  
Percent of Physicians Board  
Certified Specialists..... 72.7 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 46  
Licensed Practical Nurses..... 8

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# UNIVERSITY OF KENTUCKY HOSPITAL

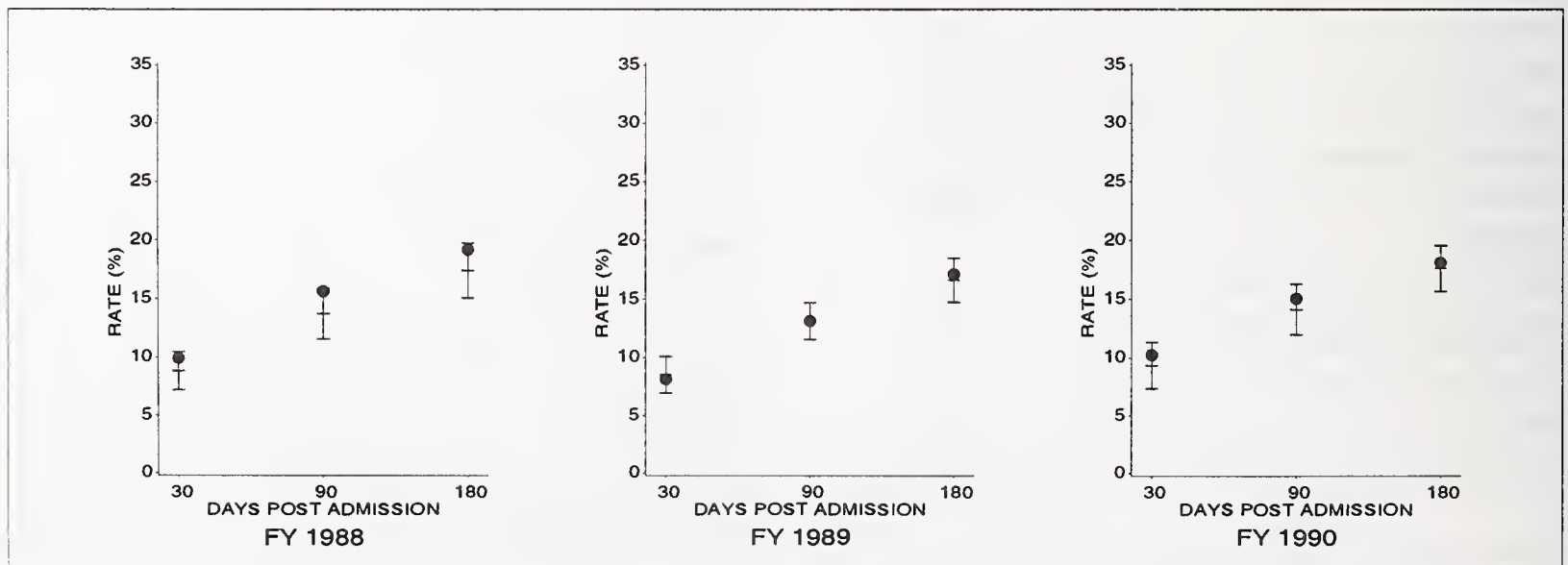
800 ROSE ST  
LEXINGTON, KY 40536  
Medicare Provider Number: 180067

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1968            | 10.2                | 9.3  | 1.0   | 15.0    | 14.1 | 1.1   | 18.1     | 17.6 | 1.0   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 71              | 22.5                | 24.6 | 5.4   | 23.9    | 27.3 | 5.9   | 26.8     | 29.8 | 5.9   |
| Congestive Heart Failure.....              | 45              | 24.4                | 11.7 | ----- | 31.1    | 18.7 | ----- | 31.1     | 24.3 | ----- |
| Pneumonia/Influenza.....                   | 59              | 28.8                | 15.8 | 8.9   | 30.5    | 21.9 | 8.2   | 35.6     | 25.8 | 8.2   |
| Chronic Obstructive Pulmonary Disease..... | 11              | 18.2                | 8.6  | ----- | 36.4    | 15.1 | ----- | 36.4     | 19.6 | ----- |
| Transient Cerebral Ischemia.....           | 35              | 2.9                 | 1.8  | ----- | 5.7     | 3.9  | ----- | 11.4     | 6.0  | ----- |
| Stroke.....                                | 66              | 33.3                | 28.0 | 9.3   | 39.4    | 33.4 | 10.6  | 42.4     | 36.6 | 11.0  |
| Hip Fracture.....                          | 22              | 0.0                 | 4.6  | ----- | 13.6    | 8.3  | ----- | 13.6     | 11.1 | ----- |
| Sepsis.....                                | 17              | 41.2                | 24.4 | ----- | 47.1    | 31.3 | ----- | 52.9     | 35.8 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 57              | 10.5                | 5.4  | 4.5   | 12.3    | 6.6  | 5.2   | 12.3     | 7.7  | 5.5   |
| Coronary Artery Bypass Graft.....          | 54              | 9.3                 | 7.5  | 3.6   | 13.0    | 10.6 | 6.0   | 22.2     | 11.9 | 5.5   |
| Initial Pacemaker Insertion.....           | 17              | 5.9                 | 2.1  | ----- | 5.9     | 4.3  | ----- | 5.9      | 6.5  | ----- |
| Carotid Endarterectomy.....                | 14              | 7.1                 | 1.6  | ----- | 7.1     | 3.1  | ----- | 7.1      | 4.4  | ----- |
| Hip Replacement/Reconstruction.....        | 17              | 0.0                 | 1.8  | ----- | 5.9     | 3.4  | ----- | 5.9      | 4.9  | ----- |
| Open Reduction of Hip Fracture.....        | 6               | 0.0                 | 5.9  | ----- | 33.3    | 10.6 | ----- | 33.3     | 13.8 | ----- |
| Prostatectomy.....                         | 16              | 0.0                 | 0.7  | ----- | 6.3     | 1.7  | ----- | 12.5     | 2.9  | ----- |
| Cholecystectomy.....                       | 17              | 0.0                 | 2.9  | ----- | 0.0     | 5.9  | ----- | 5.9      | 8.1  | ----- |
| Hysterectomy.....                          | 47              | 0.0                 | 1.3  | ----- | 0.0     | 3.0  | ----- | 2.1      | 4.7  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# UNIVERSITY OF KENTUCKY HOSPITAL

Medicare Provider Number: 180067

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 66.3 years  
Proportion female..... 50.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 26.7 %  
Transferred from skilled nursing facility..... 0.1 %  
Admitted for elective procedure..... 36.4 %  
Admitted for emergency..... 50.7 %

### COMORBIDITIES:

Cancer..... 11.2 %  
Chronic cardiovascular disease..... 34.9 %  
Chronic liver disease..... 1.0 %  
Chronic renal disease..... 4.9 %  
Chronic pulmonary disease..... 15.0 %  
Cerebrovascular degeneration..... 3.9 %  
Diabetes mellitus..... 8.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 19.6%  
State..... 75.7%  
Outside State..... 4.7%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 9.1 Days  
State..... 8.2 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 433  
Occupancy Rate..... 79.0 %  
Ownership/Control..... State Government  
Medicare Discharges..... 20.5 %  
Case Mix Index (CMI)..... 1.7170

### STAFFING:

Total Number of Physicians..... 350  
Percent of Physicians Board  
Certified Specialists..... 90.9 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 584  
Licensed Practical Nurses..... 39

### SPECIALTY SERVICES:

Burn Unit..... Yes  
Cardiac Intensive Care..... Yes  
Comprehensive Geriatric..... Yes  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... Yes  
Other Intensive Care..... No  
Trauma Center..... Yes

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... Yes  
Medicare Swing Beds..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



# US ARMY HOSPITAL

FORT KNOX, KY 40121  
Medicare Provider Number: 18002F

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 2                  | 50.0                | 25.5 | ----- | 50.0    | 33.1 | ----- | 50.0     | 37.2 | ----- |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Congestive Heart Failure.....              | 0                  |                     |      |       |         |      |       |          |      |       |
| Pneumonia/Influenza.....                   | 0                  |                     |      |       |         |      |       |          |      |       |
| Chronic Obstructive Pulmonary Disease..... | 0                  |                     |      |       |         |      |       |          |      |       |
| Transient Cerebral Ischemia.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Stroke.....                                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 0                  |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 0                  |                     |      |       |         |      |       |          |      |       |
| Hysterectomy.....                          | 0                  |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES

No Graphs are presented when the standard deviation  
was not computed for one or more of the three fiscal years,  
(1988, 1989, or 1990)

**US ARMY HOSPITAL**  
Medicare Provider Number: 18002F

**FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES**

|                                                |            |                                     |        |
|------------------------------------------------|------------|-------------------------------------|--------|
| <b>DEMOGRAPHICS:</b>                           |            | <b>COMORBIDITIES:</b>               |        |
| Average age at admission.....                  | 67.5 years | Cancer.....                         | 0.0 %  |
| Proportion female.....                         | 100.0 %    | Chronic cardiovascular disease..... | 50.0 % |
| <b>ADMISSION SOURCES/TYPES:</b>                |            | Chronic liver disease.....          | 0.0 %  |
| Referred by personal or HMO physician.....     | 0.0 %      | Chronic renal disease.....          | 0.0 %  |
| Transferred from skilled nursing facility..... | 0.0 %      | Chronic pulmonary disease.....      | 50.0 % |
| Admitted for elective procedure.....           | 0.0 %      | Cerebrovascular degeneration.....   | 0.0 %  |
| Admitted for emergency.....                    | 0.0 %      | Diabetes mellitus.....              | 0.0 %  |

**ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\***

|                                              |        |                                         |          |
|----------------------------------------------|--------|-----------------------------------------|----------|
| <b>ORIGIN OF MEDICARE PATIENT ADMISSION:</b> |        | <b>MEDICARE AVERAGE LENGTH OF STAY:</b> |          |
| County/City .....                            | 50.0%  | Hospital .....                          | 1.0 Days |
| State .....                                  | 0.0%   | State .....                             | 8.2 Days |
| Outside State .....                          | 50.0%  | National .....                          | 8.6 Days |
| Total .....                                  | 100.0% |                                         |          |

**HOSPITAL CHARACTERISTICS\***

|                                                                                     |                 |                                                 |     |
|-------------------------------------------------------------------------------------|-----------------|-------------------------------------------------|-----|
| <b>SOURCE:</b> Health Care Financing Administration (OSCAR)** - Survey Year Unknown |                 |                                                 |     |
| <b>PROFILE:</b>                                                                     |                 | <b>SPECIALTY SERVICES:</b>                      |     |
| Total Beds .....                                                                    | 650             | Burn Unit .....                                 | Yes |
| Ownership/Control.....                                                              | (Not Available) | Coronary Care Unit .....                        | Yes |
| Case Mix Index (CMI) .....                                                          | 0.0000          | Hospice Care .....                              | Yes |
| <b>STAFFING:</b>                                                                    |                 | Intensive Care Unit .....                       | Yes |
| Medical Residents/Interns .....                                                     | 0               | Organ Transplant .....                          | Yes |
| Registered Nurses.....                                                              | 0               | Trauma Center .....                             | Yes |
| Licensed Practical Nurses .....                                                     | 0               | <b>OTHER SPECIALTY/HOSPITAL-BASED SERVICES:</b> |     |
|                                                                                     |                 | Alcohol/Drug .....                              | Yes |
|                                                                                     |                 | Rehabilitation.....                             | Yes |
|                                                                                     |                 | Psychiatric .....                               | Yes |
|                                                                                     |                 | Medicare Swing Beds .....                       | N/A |

\*\* Except for CMI

\* Not used in calculating mortality rates

# US ARMY HOSPITAL

FORT CAMPBELL, KY 42223  
Medicare Provider Number: 18003F

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1                  | 100.0               | 29.8 | ----- | 100.0   | 35.8 | ----- | 100.0    | 39.8 | ----- |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Congestive Heart Failure.....              | 0                  |                     |      |       |         |      |       |          |      |       |
| Pneumonia/Influenza.....                   | 0                  |                     |      |       |         |      |       |          |      |       |
| Chronic Obstructive Pulmonary Disease..... | 0                  |                     |      |       |         |      |       |          |      |       |
| Transient Cerebral Ischemia.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Stroke.....                                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 0                  |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 0                  |                     |      |       |         |      |       |          |      |       |
| Hysterectomy.....                          | 0                  |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (\*) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES

No Graphs are presented when the standard deviation  
was not computed for one or more of the three fiscal years,  
(1988, 1989, or 1990)



**US ARMY HOSPITAL**  
Medicare Provider Number: 18003F

**FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES**

**DEMOGRAPHICS:**

Average age at admission..... 78.0 years  
Proportion female..... 0.0 %

**ADMISSION SOURCES/TYPES:**

Referred by personal or HMO physician..... 0.0 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 0.0 %

**COMORBIDITIES:**

Cancer..... 0.0 %  
Chronic cardiovascular disease..... 0.0 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 0.0 %  
Chronic pulmonary disease..... 0.0 %  
Cerebrovascular degeneration..... 0.0 %  
Diabetes mellitus..... 0.0 %

**ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\***

**ORIGIN OF MEDICARE PATIENT ADMISSION:**

County/City ..... 0.0%  
State ..... 50.0%  
Outside State ..... 50.0%  
Total ..... 100.0%

**MEDICARE AVERAGE LENGTH OF STAY:**

Hospital ..... 1.0 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

**HOSPITAL CHARACTERISTICS\***

SOURCE: Health Care Financing Administration (OSCAR)\*\* - Survey Year Unknown

**PROFILE:**

Total Beds ..... 300  
Ownership/Control..... (Not Available)  
Case Mix Index (CMI) ..... 0.0000

**STAFFING:**

Medical Residents/Interns ..... 0  
Registered Nurses..... 0  
Licensed Practical Nurses ..... 0

**SPECIALTY SERVICES:**

Burn Unit ..... Yes  
Coronary Care Unit ..... Yes  
Hospice Care ..... Yes  
Intensive Care Unit ..... Yes  
Organ Transplant ..... Yes  
Trauma Center ..... Yes

**OTHER SPECIALTY/HOSPITAL-BASED SERVICES:**

Alcohol/Drug ..... Yes  
Rehabilitation..... Yes  
Psychiatric ..... Yes  
Medicare Swing Beds ..... N/A

\*\* Except for CMI

\* Not used in calculating mortality rates

# WAYNE COUNTY HOSPITAL INC

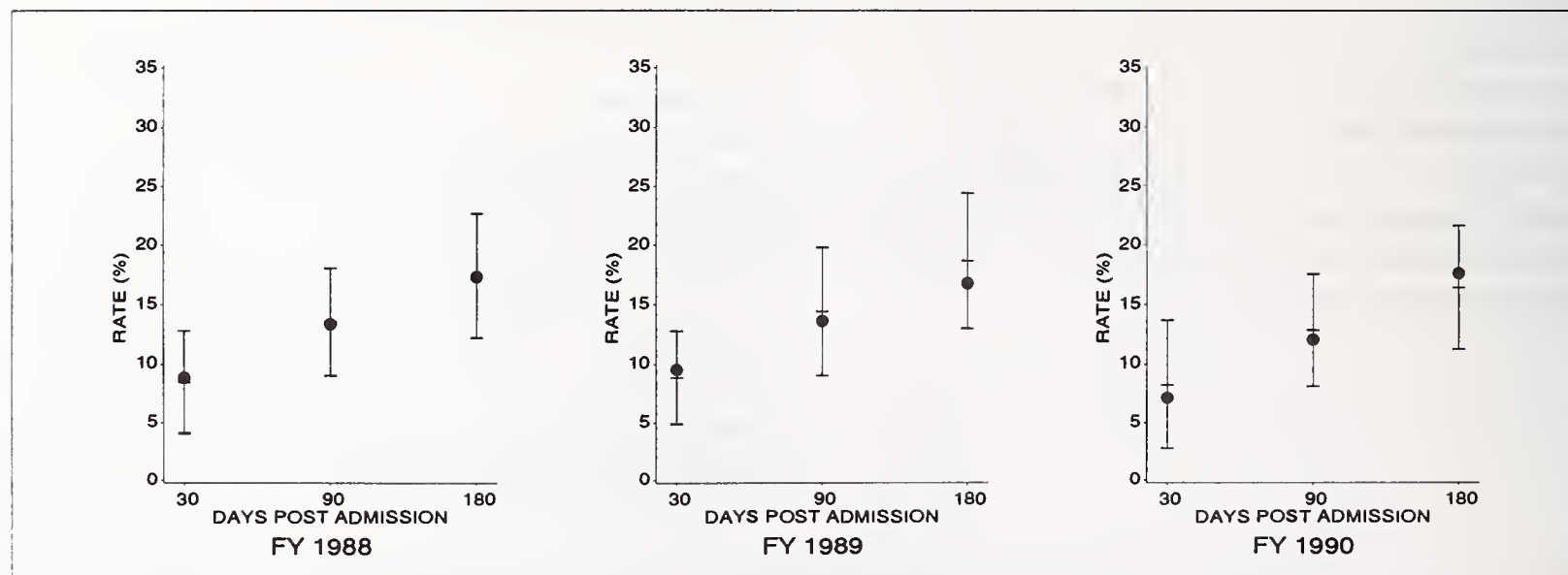
RT 4, BOX 56B  
MONTICELLO, KY 42633  
Medicare Provider Number: 180126

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 267             | 7.1                 | 8.2  | 2.7   | 12.0    | 12.8 | 2.4   | 17.6     | 16.4 | 2.6   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 2               | 0.0                 | 25.7 | ----- | 50.0    | 29.9 | ----- | 50.0     | 33.8 | ----- |
| Congestive Heart Failure.....              | 12              | 8.3                 | 10.6 | ----- | 16.7    | 16.6 | ----- | 16.7     | 21.2 | ----- |
| Pneumonia/Influenza.....                   | 24              | 12.5                | 12.6 | ----- | 20.8    | 17.9 | ----- | 25.0     | 21.8 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 4               | 0.0                 | 2.7  | ----- | 0.0     | 5.6  | ----- | 0.0      | 8.7  | ----- |
| Transient Cerebral Ischemia.....           | 3               | 0.0                 | 3.0  | ----- | 0.0     | 7.5  | ----- | 33.3     | 13.5 | ----- |
| Stroke.....                                | 10              | 20.0                | 22.0 | ----- | 20.0    | 27.4 | ----- | 50.0     | 31.9 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 3               | 0.0                 | 23.1 | ----- | 33.3    | 29.9 | ----- | 33.3     | 35.6 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 11              | 0.0                 | 0.4  | ----- | 0.0     | 0.8  | ----- | 18.2     | 1.4  | ----- |
| Cholecystectomy.....                       | 8               | 0.0                 | 0.6  | ----- | 0.0     | 1.0  | ----- | 0.0      | 1.4  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# WAYNE COUNTY HOSPITAL INC

Medicare Provider Number: 180126

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.7 years  
Proportion female..... 55.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 42.3 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 37.8 %  
Admitted for emergency..... 0.0 %

### COMORBIDITIES:

Cancer..... 3.0 %  
Chronic cardiovascular disease..... 36.7 %  
Chronic liver disease..... 0.4 %  
Chronic renal disease..... 2.2 %  
Chronic pulmonary disease..... 21.3 %  
Cerebrovascular degeneration..... 6.0 %  
Diabetes mellitus..... 7.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 91.0%  
State ..... 5.8%  
Outside State ..... 3.2%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.1 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 30  
Occupancy Rate ..... 43.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 52.3 %  
Case Mix Index (CMI) ..... 1.0130

### STAFFING:

Total Number of Physicians..... 14  
Percent of Physicians Board  
Certified Specialists ..... 57.1 %  
Medical Residents/Interns ..... 0  
Registered Nurses ..... 17  
Licensed Practical Nurses ..... 7

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# WESTERN BAPTIST HOSPITAL

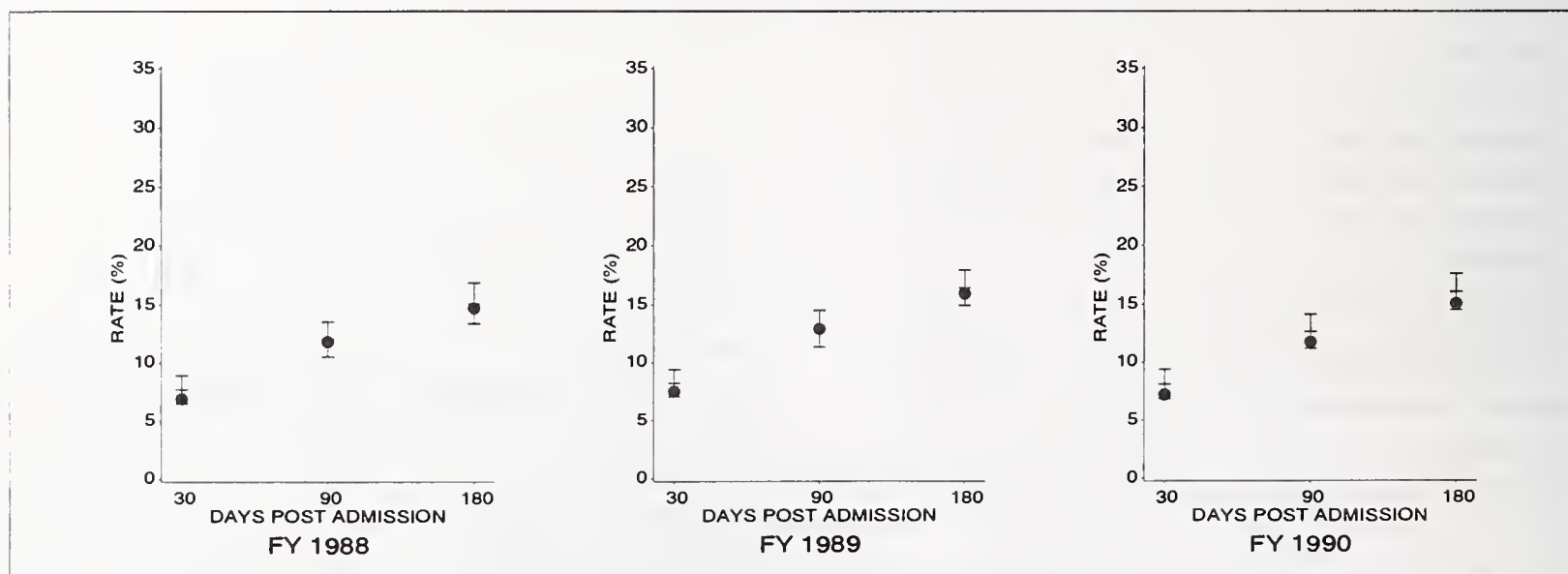
2501 KENTUCKY AVE  
PADUCAH, KY 42003  
Medicare Provider Number: 180104

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 3635            | 7.2                 | 8.1  | 0.6   | 11.7    | 12.6 | 0.7   | 15.0     | 16.0 | 0.8   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 133             | 23.3                | 23.1 | 4.4   | 28.6    | 26.3 | 4.3   | 29.3     | 29.0 | 4.0   |
| Congestive Heart Failure.....              | 116             | 13.8                | 16.6 | 4.8   | 24.1    | 25.6 | 6.1   | 30.2     | 32.2 | 6.5   |
| Pneumonia/Influenza.....                   | 177             | 16.9                | 16.8 | 3.4   | 24.9    | 23.4 | 3.5   | 31.6     | 27.9 | 4.0   |
| Chronic Obstructive Pulmonary Disease..... | 113             | 3.5                 | 5.7  | 2.9   | 8.8     | 10.6 | 3.3   | 12.4     | 14.7 | 3.9   |
| Transient Cerebral Ischemia.....           | 77              | 1.3                 | 2.2  | 1.9   | 3.9     | 5.0  | 2.8   | 6.5      | 7.8  | 4.2   |
| Stroke.....                                | 110             | 14.5                | 23.5 | 6.7   | 29.1    | 30.0 | 5.0   | 32.7     | 34.1 | 5.4   |
| Hip Fracture.....                          | 77              | 2.6                 | 7.3  | 3.9   | 5.2     | 12.3 | 5.3   | 9.1      | 15.6 | 5.3   |
| Sepsis.....                                | 11              | 36.4                | 24.4 | ----- | 36.4    | 34.7 | ----- | 36.4     | 40.6 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 51              | 2.0                 | 4.5  | 4.0   | 2.0     | 5.5  | 4.6   | 2.0      | 6.4  | 5.0   |
| Coronary Artery Bypass Graft.....          | 158             | 1.9                 | 6.2  | 2.4   | 1.9     | 8.9  | 3.0   | 1.9      | 10.2 | 3.5   |
| Initial Pacemaker Insertion.....           | 48              | 2.1                 | 2.8  | ----- | 8.3     | 5.8  | ----- | 8.3      | 8.5  | ----- |
| Carotid Endarterectomy.....                | 33              | 6.1                 | 1.8  | ----- | 9.1     | 3.3  | ----- | 9.1      | 4.8  | ----- |
| Hip Replacement/Reconstruction.....        | 61              | 1.6                 | 4.5  | 4.2   | 3.3     | 7.9  | 6.1   | 6.6      | 10.2 | 6.1   |
| Open Reduction of Hip Fracture.....        | 39              | 2.6                 | 5.8  | ----- | 2.6     | 10.6 | ----- | 5.1      | 14.1 | ----- |
| Prostatectomy.....                         | 89              | 2.2                 | 1.2  | 1.5   | 3.4     | 2.7  | 1.8   | 4.5      | 4.5  | 2.4   |
| Cholecystectomy.....                       | 82              | 8.5                 | 3.4  | 4.0   | 11.0    | 6.5  | 3.8   | 12.2     | 8.8  | 3.9   |
| Hysterectomy.....                          | 23              | 0.0                 | 0.1  | ----- | 0.0     | 0.3  | ----- | 0.0      | 0.6  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# WESTERN BAPTIST HOSPITAL

Medicare Provider Number: 180104

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 73.3 years  
Proportion female..... 53.0 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 35.2 %  
Transferred from skilled nursing facility..... 0.1 %  
Admitted for elective procedure..... 17.7 %  
Admitted for emergency..... 77.7 %

### COMORBIDITIES:

Cancer..... 9.1 %  
Chronic cardiovascular disease..... 37.8 %  
Chronic liver disease..... 0.5 %  
Chronic renal disease..... 1.6 %  
Chronic pulmonary disease..... 28.3 %  
Cerebrovascular degeneration..... 2.5 %  
Diabetes mellitus..... 5.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 41.2%  
State ..... 42.9%  
Outside State ..... 15.9%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 9.5 Days  
State ..... 8.2 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 348  
Occupancy Rate ..... 79.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 42.8 %  
Case Mix Index (CMI) ..... 1.3989

### STAFFING:

Total Number of Physicians..... (Not Available)  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... (Not Available)  
Registered Nurses..... (Not Available)  
Licensed Practical Nurses ..... (Not Available)

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... Yes  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# WESTLAKE CUMBERLAND HOSPITAL

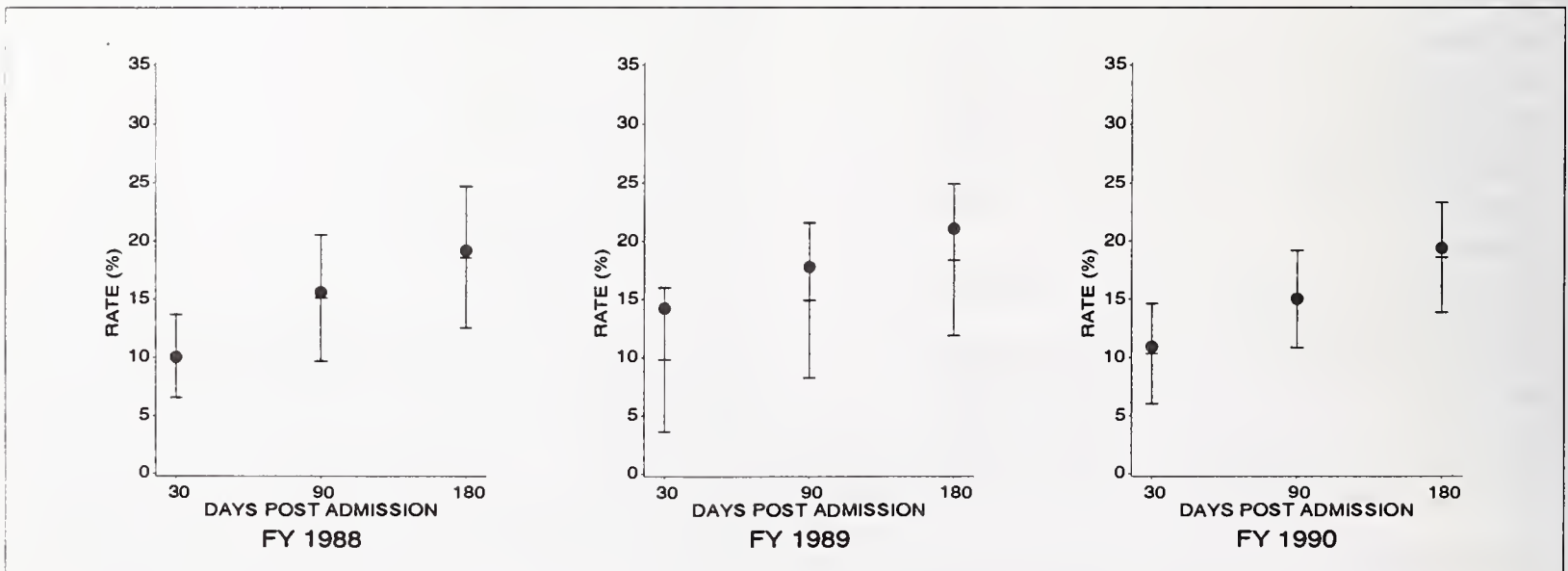
WESTLAKE DR, BOX 468  
COLUMBIA, KY 42728  
Medicare Provider Number: 180034

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 340                | 10.9                | 10.3 | 2.2   | 15.0    | 15.0 | 2.1   | 19.4     | 18.6 | 2.4   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 17                 | 35.3                | 29.9 | ----- | 35.3    | 33.2 | ----- | 35.3     | 36.2 | ----- |
| Congestive Heart Failure.....              | 12                 | 8.3                 | 14.9 | ----- | 25.0    | 22.4 | ----- | 25.0     | 28.2 | ----- |
| Pneumonia/Influenza.....                   | 31                 | 6.5                 | 18.4 | ----- | 16.1    | 25.2 | ----- | 25.8     | 29.2 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 13                 | 7.7                 | 10.7 | ----- | 7.7     | 19.2 | ----- | 23.1     | 24.7 | ----- |
| Transient Cerebral Ischemia.....           | 5                  | 0.0                 | 1.4  | ----- | 0.0     | 3.4  | ----- | 0.0      | 5.8  | ----- |
| Stroke.....                                | 4                  | 0.0                 | 17.1 | ----- | 0.0     | 22.5 | ----- | 0.0      | 26.6 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 5                  | 20.0                | 25.0 | ----- | 20.0    | 31.2 | ----- | 40.0     | 34.3 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 3                  | 33.3                | 7.4  | ----- | 33.3    | 16.6 | ----- | 33.3     | 23.9 | ----- |
| Hysterectomy.....                          | 0                  |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# WESTLAKE CUMBERLAND HOSPITAL

Medicare Provider Number: 180034

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 73.6 years  
Proportion female..... 56.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 47.4 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 98.5 %

### COMORBIDITIES:

Cancer..... 3.8 %  
Chronic cardiovascular disease..... 38.8 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 1.2 %  
Chronic pulmonary disease..... 19.1 %  
Cerebrovascular degeneration..... 6.8 %  
Diabetes mellitus..... 11.5 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 75.5%  
State..... 23.7%  
Outside State..... 0.8%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 7.2 Days  
State..... 8.2 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 80  
Occupancy Rate..... 23.0 %  
Ownership/Control..... District/Authority  
Medicare Discharges..... (Not Available)  
Case Mix Index (CMI)..... 1.0338

### STAFFING:

Total Number of Physicians..... (Not Available)  
Percent of Physicians Board  
Certified Specialists..... (Not Available)  
Medical Residents/Interns..... (Not Available)  
Registered Nurses..... (Not Available)  
Licensed Practical Nurses..... (Not Available)

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# WHITESBURG APPALACHIAN REGIONAL HOSPITAL

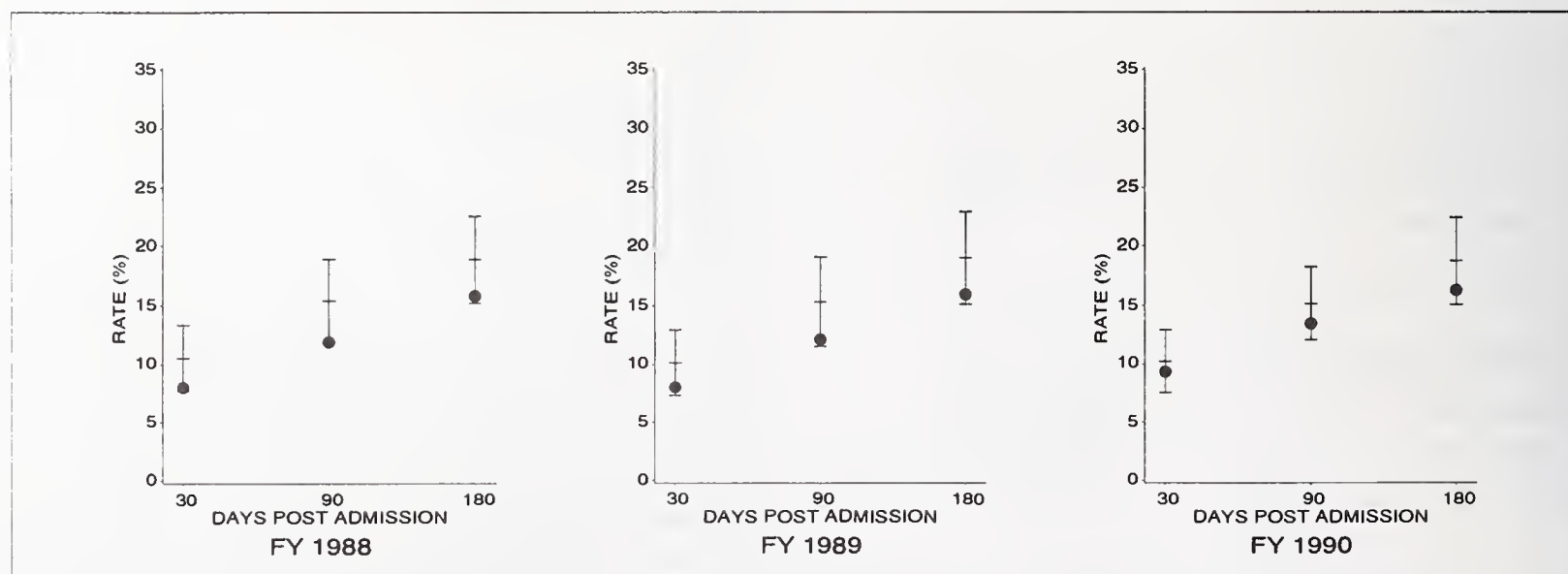
550 JENKINS RD  
WHITESBURG, KY 41858  
Medicare Provider Number: 180002

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 710             | 9.3                 | 10.2 | 1.3   | 13.4    | 15.1 | 1.5   | 16.2     | 18.7 | 1.8   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 22              | 45.5                | 33.0 | ----- | 45.5    | 35.4 | ----- | 45.5     | 38.1 | ----- |
| Congestive Heart Failure.....              | 40              | 15.0                | 12.5 | ----- | 25.0    | 20.2 | ----- | 35.0     | 26.6 | ----- |
| Pneumonia/Influenza.....                   | 29              | 10.3                | 13.2 | ----- | 17.2    | 18.2 | ----- | 17.2     | 22.0 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 46              | 10.9                | 5.3  | ----- | 10.9    | 10.1 | ----- | 13.0     | 14.1 | ----- |
| Transient Cerebral Ischemia.....           | 18              | 0.0                 | 1.3  | ----- | 0.0     | 3.1  | ----- | 0.0      | 5.2  | ----- |
| Stroke.....                                | 32              | 12.5                | 18.0 | ----- | 18.8    | 23.6 | ----- | 18.8     | 27.9 | ----- |
| Hip Fracture.....                          | 1               | 0.0                 | 2.4  | ----- | 0.0     | 4.5  | ----- | 0.0      | 6.3  | ----- |
| Sepsis.....                                | 8               | 12.5                | 20.3 | ----- | 12.5    | 24.9 | ----- | 12.5     | 28.7 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 17              | 0.0                 | 4.8  | ----- | 0.0     | 8.7  | ----- | 0.0      | 11.3 | ----- |
| Hysterectomy.....                          | 2               | 0.0                 | 0.2  | ----- | 0.0     | 0.5  | ----- | 0.0      | 0.9  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# WHITESBURG APPALACHIAN REGIONAL HOSPITAL

Medicare Provider Number: 180002

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 72.4 years  
Proportion female..... 55.3 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 43.5 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 75.7 %

### COMORBIDITIES:

Cancer..... 4.2 %  
Chronic cardiovascular disease..... 37.0 %  
Chronic liver disease..... 0.7 %  
Chronic renal disease..... 4.2 %  
Chronic pulmonary disease..... 31.4 %  
Cerebrovascular degeneration..... 2.1 %  
Diabetes mellitus..... 11.5 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 81.7%  
State..... 16.1%  
Outside State..... 2.2%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 5.5 Days  
State..... 8.2 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 71  
Occupancy Rate..... 59.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges..... 38.3 %  
Case Mix Index (CMI)..... 1.1327

### STAFFING:

Total Number of Physicians..... 22  
Percent of Physicians Board  
Certified Specialists..... 31.8 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 53  
Licensed Practical Nurses..... 31

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... No

\*\* Except for CMI

\* Not used in calculating mortality rates



# WILLIAMSON APPALACHIAN REGIONAL HOSPITAL

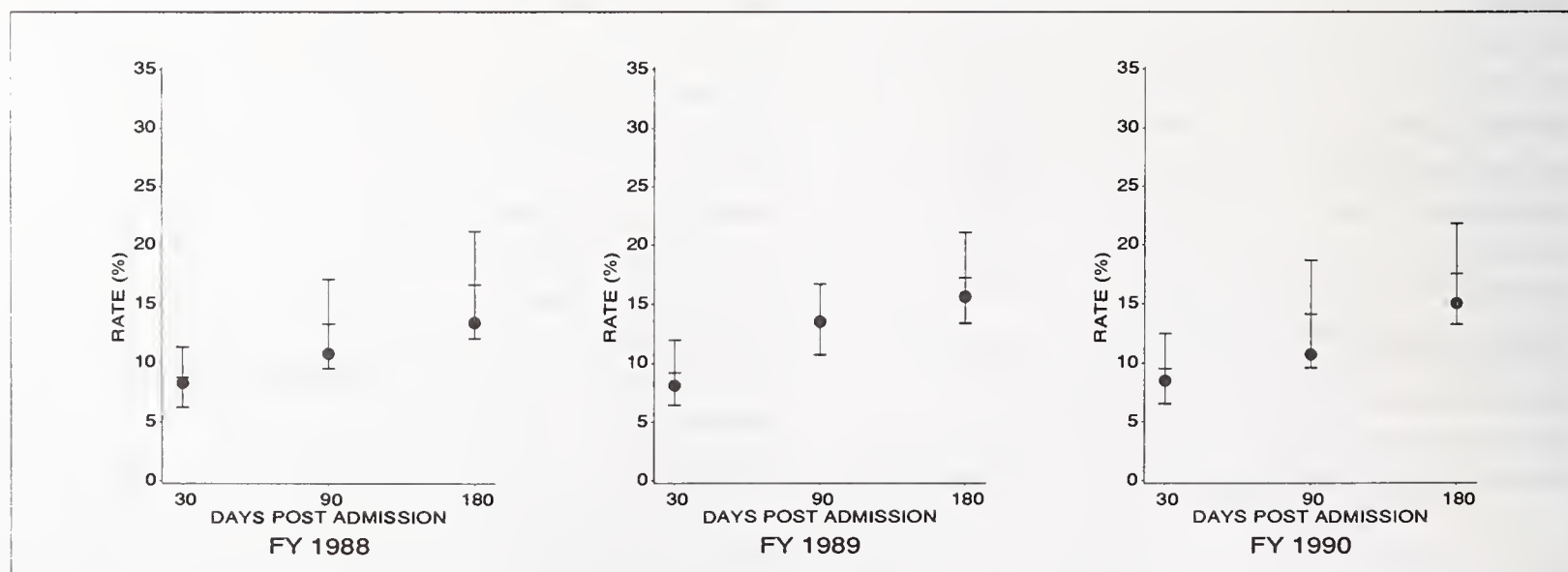
2000 CENTRAL AVE  
SOUTH WILLIAMSON, KY 41503  
Medicare Provider Number: 180069

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 661             | 8.5                 | 9.5  | 1.5   | 10.7    | 14.1 | 2.3   | 15.0     | 17.5 | 2.1   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 17              | 41.2                | 29.6 | ----- | 41.2    | 32.9 | ----- | 41.2     | 35.6 | ----- |
| Congestive Heart Failure.....              | 20              | 25.0                | 15.6 | ----- | 35.0    | 25.3 | ----- | 35.0     | 32.0 | ----- |
| Pneumonia/Influenza.....                   | 23              | 4.3                 | 12.0 | ----- | 4.3     | 16.3 | ----- | 8.7      | 19.5 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 43              | 0.0                 | 6.7  | ----- | 0.0     | 12.0 | ----- | 7.0      | 16.3 | ----- |
| Transient Cerebral Ischemia.....           | 16              | 0.0                 | 1.4  | ----- | 6.3     | 3.2  | ----- | 6.3      | 5.3  | ----- |
| Stroke.....                                | 22              | 22.7                | 21.5 | ----- | 22.7    | 29.1 | ----- | 22.7     | 33.7 | ----- |
| Hip Fracture.....                          | 6               | 0.0                 | 4.8  | ----- | 0.0     | 8.5  | ----- | 0.0      | 11.3 | ----- |
| Sepsis.....                                | 2               | 0.0                 | 23.6 | ----- | 0.0     | 28.6 | ----- | 0.0      | 32.6 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 4               | 25.0                | 3.5  | ----- | 25.0    | 6.8  | ----- | 25.0     | 9.7  | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 1               | 0.0                 | 5.7  | ----- | 0.0     | 10.4 | ----- | 0.0      | 14.7 | ----- |
| Open Reduction of Hip Fracture.....        | 3               | 0.0                 | 4.5  | ----- | 0.0     | 8.2  | ----- | 0.0      | 11.0 | ----- |
| Prostatectomy.....                         | 15              | 0.0                 | 1.4  | ----- | 0.0     | 3.1  | ----- | 0.0      | 5.2  | ----- |
| Cholecystectomy.....                       | 8               | 0.0                 | 3.3  | ----- | 0.0     | 5.6  | ----- | 0.0      | 7.2  | ----- |
| Hysterectomy.....                          | 1               | 0.0                 | 0.1  | ----- | 0.0     | 0.2  | ----- | 0.0      | 0.4  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# WILLIAMSON APPALACHIAN REGIONAL HOSPITAL

Medicare Provider Number: 180069

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

|                               |            |
|-------------------------------|------------|
| Average age at admission..... | 70.4 years |
| Proportion female.....        | 50.4 %     |

### ADMISSION SOURCES/TYPES:

|                                                |        |
|------------------------------------------------|--------|
| Referred by personal or HMO physician.....     | 36.9 % |
| Transferred from skilled nursing facility..... | 0.6 %  |
| Admitted for elective procedure.....           | 0.2 %  |
| Admitted for emergency.....                    | 94.4 % |

### COMORBIDITIES:

|                                     |        |
|-------------------------------------|--------|
| Cancer.....                         | 4.1 %  |
| Chronic cardiovascular disease..... | 40.7 % |
| Chronic liver disease.....          | 1.1 %  |
| Chronic renal disease.....          | 3.8 %  |
| Chronic pulmonary disease.....      | 34.0 % |
| Cerebrovascular degeneration.....   | 4.2 %  |
| Diabetes mellitus.....              | 5.4 %  |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

|                     |        |
|---------------------|--------|
| County/City .....   | 42.3%  |
| State .....         | 3.3%   |
| Outside State ..... | 54.4%  |
| Total .....         | 100.0% |

### MEDICARE AVERAGE LENGTH OF STAY:

|                |          |
|----------------|----------|
| Hospital ..... | 6.3 Days |
| State .....    | 8.2 Days |
| National ..... | 8.6 Days |

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

|                            |                     |
|----------------------------|---------------------|
| Total Beds .....           | 140                 |
| Occupancy Rate .....       | 52.0 %              |
| Ownership/Control.....     | Private, Non-Profit |
| Medicare Discharges .....  | (Not Available)     |
| Case Mix Index (CMI) ..... | 1.1358              |

### STAFFING:

|                                                            |        |
|------------------------------------------------------------|--------|
| Total Number of Physicians.....                            | 58     |
| Percent of Physicians Board<br>Certified Specialists ..... | 31.0 % |
| Medical Residents/Interns .....                            | 0      |
| Registered Nurses.....                                     | 37     |
| Licensed Practical Nurses .....                            | 28     |

### SPECIALTY SERVICES:

|                                       |     |
|---------------------------------------|-----|
| Burn Unit .....                       | No  |
| Cardiac Intensive Care .....          | No  |
| Comprehensive Geriatric .....         | No  |
| Hospice Care .....                    | No  |
| Medical/Surgical Intensive Care ..... | Yes |
| Organ/Tissue Transplant .....         | No  |
| Other Intensive Care .....            | No  |
| Trauma Center .....                   | No  |

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

|                           |     |
|---------------------------|-----|
| Alcohol/Drug .....        | No  |
| Rehabilitation.....       | No  |
| Psychiatric .....         | No  |
| Medicare Swing Beds ..... | Yes |

\*\* Except for CMI

\* Not used in calculating mortality rates

# WOODFORD MEMORIAL HOSPITAL

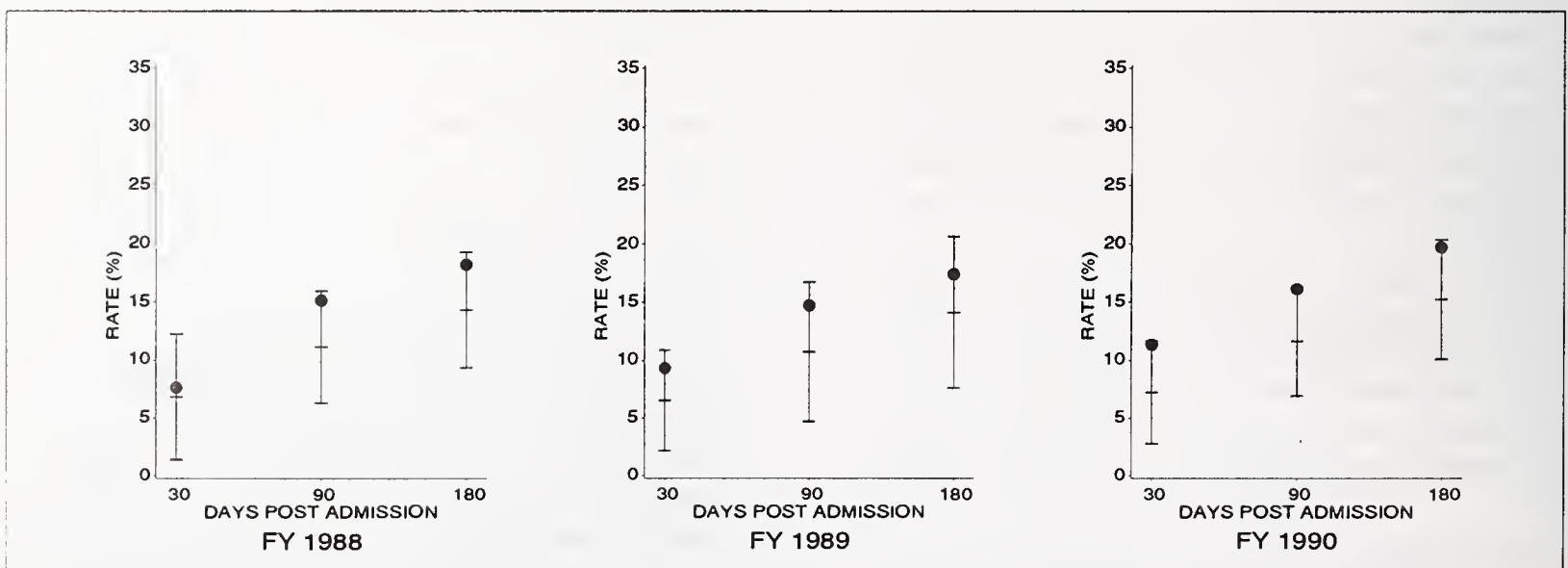
360 AMSDEN AVE  
VERSAILLES, KY 40383  
Medicare Provider Number: 180072

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 335             | 11.3                | 7.2  | 2.2   | 16.1    | 11.6 | 2.4   | 19.7     | 15.2 | 2.6   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 23              | 34.8                | 16.2 | ----- | 34.8    | 19.5 | ----- | 43.5     | 22.3 | ----- |
| Congestive Heart Failure.....              | 12              | 25.0                | 13.9 | ----- | 25.0    | 22.2 | ----- | 33.3     | 28.8 | ----- |
| Pneumonia/Influenza.....                   | 27              | 18.5                | 10.2 | ----- | 29.6    | 14.4 | ----- | 33.3     | 17.4 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 5               | 0.0                 | 4.1  | ----- | 0.0     | 7.8  | ----- | 0.0      | 11.1 | ----- |
| Transient Cerebral Ischemia.....           | 3               | 0.0                 | 0.8  | ----- | 33.3    | 1.9  | ----- | 33.3     | 3.5  | ----- |
| Stroke.....                                | 11              | 0.0                 | 14.3 | ----- | 9.1     | 22.8 | ----- | 9.1      | 27.9 | ----- |
| Hip Fracture.....                          | 15              | 0.0                 | 3.6  | ----- | 0.0     | 7.0  | ----- | 0.0      | 9.5  | ----- |
| Sepsis.....                                | 3               | 0.0                 | 24.9 | ----- | 0.0     | 30.2 | ----- | 0.0      | 33.8 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 4               | 0.0                 | 3.5  | ----- | 0.0     | 7.0  | ----- | 0.0      | 9.4  | ----- |
| Open Reduction of Hip Fracture.....        | 7               | 0.0                 | 2.9  | ----- | 0.0     | 5.9  | ----- | 0.0      | 8.3  | ----- |
| Prostatectomy.....                         | 5               | 20.0                | 3.8  | ----- | 20.0    | 9.5  | ----- | 20.0     | 15.6 | ----- |
| Cholecystectomy.....                       | 4               | 0.0                 | 2.6  | ----- | 25.0    | 5.9  | ----- | 25.0     | 8.7  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# WOODFORD MEMORIAL HOSPITAL

Medicare Provider Number: 180072

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.8 years  
Proportion female..... 62.4 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 97.6 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 80.6 %  
Admitted for emergency..... 3.0 %

### COMORBIDITIES:

Cancer..... 6.9 %  
Chronic cardiovascular disease..... 34.6 %  
Chronic liver disease..... 0.9 %  
Chronic renal disease..... 2.1 %  
Chronic pulmonary disease..... 14.6 %  
Cerebrovascular degeneration..... 8.7 %  
Diabetes mellitus..... 3.9 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 61.6%  
State..... 37.2%  
Outside State..... 1.2%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 7.1 Days  
State..... 8.2 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 73  
Occupancy Rate..... 53.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges..... (Not Available)  
Case Mix Index (CMI)..... 1.0318

### STAFFING:

Total Number of Physicians..... (Not Available)  
Percent of Physicians Board  
Certified Specialists..... (Not Available)  
Medical Residents/Interns..... (Not Available)  
Registered Nurses..... (Not Available)  
Licensed Practical Nurses..... (Not Available)

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# KENTUCKY

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |     |         |      |     |          |      |     |
|--------------------------------------------|--------------------|---------------------|------|-----|---------|------|-----|----------|------|-----|
|                                            |                    | 30 DAYS             |      |     | 90 DAYS |      |     | 180 DAYS |      |     |
|                                            |                    | OBS                 | PRED | SD* | OBS     | PRED | SD* | OBS      | PRED | SD* |
| ALL CAUSES.....                            | 119,013            | 9.0                 | 8.9  | 0.1 | 13.8    | 13.6 | 0.2 | 17.2     | 17.0 | 0.2 |
| CONDITIONS:                                |                    |                     |      |     |         |      |     |          |      |     |
| Acute Myocardial Infarction.....           | 3,582              | 28.1                | 24.5 | 0.8 | 31.4    | 27.5 | 1.1 | 33.8     | 30.3 | 1.1 |
| Congestive Heart Failure.....              | 5,585              | 14.6                | 14.2 | 0.7 | 23.2    | 22.7 | 0.6 | 28.8     | 28.9 | 0.7 |
| Pneumonia/Influenza.....                   | 7,370              | 13.5                | 14.8 | 0.7 | 20.2    | 20.5 | 0.7 | 24.4     | 24.3 | 0.9 |
| Chronic Obstructive Pulmonary Disease..... | 2,709              | 5.9                 | 6.2  | 0.5 | 10.6    | 11.4 | 0.7 | 14.5     | 15.6 | 1.0 |
| Transient Cerebral Ischemia.....           | 2,202              | 1.5                 | 1.8  | 0.4 | 4.1     | 4.0  | 0.5 | 7.0      | 6.5  | 0.8 |
| Stroke.....                                | 4,059              | 20.5                | 19.3 | 1.1 | 27.6    | 25.7 | 1.4 | 31.2     | 29.5 | 1.3 |
| Hip Fracture.....                          | 2,724              | 7.0                 | 6.4  | 0.6 | 11.3    | 11.3 | 0.7 | 13.8     | 14.7 | 0.8 |
| Sepsis.....                                | 1,363              | 26.0                | 24.8 | 2.1 | 35.3    | 32.8 | 2.4 | 39.4     | 37.5 | 2.0 |
| PROCEDURES:                                |                    |                     |      |     |         |      |     |          |      |     |
| Angioplasty.....                           | 683                | 2.2                 | 3.0  | 1.2 | 3.4     | 3.9  | 1.5 | 4.0      | 4.8  | 1.6 |
| Coronary Artery Bypass Graft.....          | 1,327              | 6.3                 | 5.6  | 0.9 | 7.5     | 8.0  | 0.8 | 9.0      | 9.1  | 1.1 |
| Initial Pacemaker Insertion.....           | 761                | 3.4                 | 3.0  | 0.7 | 7.0     | 6.1  | 1.1 | 8.8      | 8.8  | 1.5 |
| Carotid Endarterectomy.....                | 563                | 2.8                 | 1.5  | 0.8 | 5.2     | 2.8  | 1.2 | 6.2      | 4.1  | 1.2 |
| Hip Replacement/Reconstruction.....        | 1,757              | 3.4                 | 3.5  | 0.6 | 6.1     | 6.6  | 0.8 | 7.9      | 8.8  | 1.0 |
| Open Reduction of Hip Fracture.....        | 1,244              | 7.0                 | 6.0  | 1.0 | 11.2    | 11.0 | 0.9 | 13.7     | 14.5 | 1.1 |
| Prostatectomy.....                         | 2,993              | 1.3                 | 1.0  | 0.3 | 2.6     | 2.4  | 0.4 | 4.6      | 4.1  | 0.5 |
| Cholecystectomy.....                       | 2,356              | 3.1                 | 2.7  | 0.4 | 5.9     | 5.1  | 0.7 | 7.8      | 6.7  | 0.8 |
| Hysterectomy.....                          | 842                | 0.5                 | 0.7  | 0.4 | 1.1     | 1.5  | 0.5 | 1.9      | 2.3  | 0.7 |

\* The Standard Deviation (SD) Is not calculated If the number of deaths or cases is too small for satisfactory estimation.

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

|                                                |            |                                     |        |
|------------------------------------------------|------------|-------------------------------------|--------|
| DEMOGRAPHICS:                                  |            | COMORBIDITIES:                      |        |
| Average age at admission.....                  | 73.3 years | Cancer.....                         | 7.0 %  |
| Proportion female.....                         | 56.5 %     | Chronic cardiovascular disease..... | 37.5 % |
| ADMISSION SOURCES/TYPES:                       |            | Chronic liver disease.....          | 0.8 %  |
| Referred by personal or HMO physician.....     | 51.1 %     | Chronic renal disease.....          | 3.2 %  |
| Transferred from skilled nursing facility..... | 0.7 %      | Chronic pulmonary disease.....      | 20.1 % |
| Admitted for elective procedure.....           | 19.5 %     | Cerebrovascular degeneration.....   | 4.2 %  |
| Admitted for emergency.....                    | 49.9 %     | Diabetes mellitus.....              | 8.4 %  |

# ALL STATES

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|--------------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                    | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                    | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 6,542,299          | 9.0                 | 9.0  | ---- | 13.9    | 13.7 | ---- | 17.3     | 17.1 | ---- |
| CONDITIONS:                                |                    |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 204,673            | 25.3                | 25.6 | ---- | 29.5    | 28.7 | ---- | 32.1     | 31.4 | ---- |
| Congestive Heart Failure.....              | 335,426            | 14.3                | 14.4 | ---- | 22.9    | 22.8 | ---- | 29.2     | 29.0 | ---- |
| Pneumonia/Influenza.....                   | 313,303            | 15.3                | 15.5 | ---- | 21.5    | 21.3 | ---- | 25.5     | 25.1 | ---- |
| Chronic Obstructive Pulmonary Disease..... | 107,387            | 8.0                 | 8.0  | ---- | 14.1    | 14.0 | ---- | 18.7     | 18.5 | ---- |
| Transient Cerebral Ischemia.....           | 96,866             | 1.8                 | 1.8  | ---- | 4.0     | 4.0  | ---- | 6.4      | 6.5  | ---- |
| Stroke.....                                | 241,803            | 19.7                | 19.8 | ---- | 26.5    | 26.3 | ---- | 30.4     | 30.0 | ---- |
| Hip Fracture.....                          | 163,386            | 6.7                 | 6.5  | ---- | 11.7    | 11.5 | ---- | 15.1     | 15.0 | ---- |
| Sepsis.....                                | 80,999             | 25.6                | 25.7 | ---- | 34.6    | 33.8 | ---- | 39.8     | 38.6 | ---- |
| PROCEDURES:                                |                    |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 58,026             | 3.0                 | 3.0  | ---- | 4.0     | 4.0  | ---- | 5.0      | 4.9  | ---- |
| Coronary Artery Bypass Graft.....          | 80,798             | 6.0                 | 5.7  | ---- | 8.3     | 8.1  | ---- | 9.5      | 9.2  | ---- |
| Initial Pacemaker Insertion.....           | 49,642             | 3.2                 | 3.3  | ---- | 6.5     | 6.3  | ---- | 9.1      | 9.1  | ---- |
| Carotid Endarterectomy.....                | 29,990             | 1.6                 | 1.5  | ---- | 2.8     | 2.8  | ---- | 4.0      | 4.1  | ---- |
| Hip Replacement/Reconstruction.....        | 122,156            | 3.4                 | 3.2  | ---- | 6.2     | 5.9  | ---- | 8.1      | 8.0  | ---- |
| Open Reduction of Hip Fracture.....        | 80,075             | 6.1                 | 6.0  | ---- | 11.2    | 11.0 | ---- | 14.5     | 14.5 | ---- |
| Prostatectomy.....                         | 211,087            | 0.9                 | 1.0  | ---- | 2.2     | 2.3  | ---- | 3.7      | 3.8  | ---- |
| Cholecystectomy.....                       | 124,259            | 2.9                 | 2.7  | ---- | 5.0     | 4.9  | ---- | 6.5      | 6.5  | ---- |
| Hysterectomy.....                          | 53,905             | 0.7                 | 0.7  | ---- | 1.4     | 1.5  | ---- | 2.2      | 2.4  | ---- |

\* The Standard Deviation (SD) is not calculated.

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 74.1 years  
Proportion female..... 55.9 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 46.1 %  
Transferred from skilled nursing facility..... 1.1 %  
Admitted for elective procedure..... 22.0 %  
Admitted for emergency..... 46.5 %

### COMORBIDITIES:

Cancer..... 7.6 %  
Chronic cardiovascular disease..... 36.6 %  
Chronic liver disease..... 1.0 %  
Chronic renal disease..... 3.4 %  
Chronic pulmonary disease..... 15.0 %  
Cerebrovascular degeneration..... 3.9 %  
Diabetes mellitus..... 8.0 %





# **Hospital Comments**



March 11, 1992

Medicare Provider # - 180056

Gail R. Wilensky, Ph.D., Administrator  
Health Care Financing Administration  
Medicare Hospital Information  
Bureau of Data Management and Strategy  
Room 3-A-12, Security Office Park Building  
6325 Security Boulevard  
Baltimore, Maryland 21207-5187  
ATTN: Robert Moore

Dear Dr. Wilensky:

Following the release of the Medicare Mortality Data in 1989, it became readily apparent that our institution exceeded the predicted mortality rates by greater than 2 (two) standard deviations because the predicted rates were simply too low as compared to other area hospitals, and not due to a higher than expected mortality rate at our institution. Had our institution been allowed the predicted rate of two area hospitals within a seventy (70) mile radius, our mortality rate would have been lower than predicted.

Pursuant to the above findings, an extensive study revealed the predicted rates were due to errors on behalf of the institution in failing to accurately record on the UB-82's the type of admission and source of admission of our patients, as well as strict adherence of coding principles, which many times, does not permit the entry of significant co-morbid conditions in the allowable four (4) co-morbid spaces on the UB-82. (Although these spaces have now been increased to allow nine (9) co-morbid conditions, this was not allowable until 1992, and thus did have impact on all earlier reported data).

After discovering our errors which were contained on the UB-82's, sixteen telephone and written contacts were made by this institution to eight (8) different HCFA officials beginning on May 22, 1991, requesting that our institution be allowed to correct the data.



Page 2  
March 11, 1992  
Gail R. Wilensky, Ph. D.

Medicare Provider # - 180056

The most we received from HCFA were the following statements:

"Hospitals are able to request that they be permitted to submit corrected data if they can demonstrate to their fiscal intermediary that such a submission would be to the Government's financial benefit, and if the fiscal intermediary is willing to accept such a submission on the Government's behalf".

"It is not feasible for HCFA to expend Government resources on reconfiguration of its major data bases".

"Academic health care researchers, financial analysts, and policy makers (Government and otherwise) are constantly using HCFA's Medicare data bases for demographic, medical, and financial research which will impact the future of the Medicare program for years to come.....Finally, if only a few hospitals are afforded the opportunity to correct their own errors, it disadvantages those who do not have this opportunity".

Based on the HCFA philosophy as demonstrated in the above statements, one could assume that their primary concern is data, not necessarily correct data, but just data.

We are pleased that the 1990 data reflects the institution did not exceed two (2) standard deviations for the "all causes" category for 1990. We feel that had we been allowed to re-enter correct data, the "all causes" mortality rate, as well as the mortality rate for listed specific conditions and procedures, would have been below the predicted values.

It would be our hope that should HCFA continue to publish mortality data, or other health data, that senior managers search for methods to ensure the collection and distribution of correct data, while devising methods which allow the re-submission of data which has been found to be incorrect.

Respectfully submitted,

  
Charles R. Chapman,  
Executive Director



# Ephraim McDowell REGIONAL MEDICAL CENTER

A Century of Service to Central Kentucky

180048

March 18, 1992

Gail R. Wilensky, Ph.D., Administrator  
Health Care Financing Administration  
Medicare Hospital Information  
Bureau of Data Management and Strategy  
Room 3-A-12, Security Office Park Building  
6325 Security Boulevard  
Baltimore, Maryland 21207-5187  
ATTN: Robert Moore

Dear Dr. Wilensky:

The following is our response to your February 28, 1992 annual release of Medicare hospital mortality information:

"Ephraim McDowell Regional Medical Center has received and carefully analyzed the Health Care Financing Administration's (HCFA) release of Medicare hospital mortality data for the Fiscal Year 1990.

"We have applied the rule of thumb suggested by HCFA for using the standard deviation to construct a confidence interval or range of predicted mortality to determine whether the difference between the observed and expected rates is worthy of investigation. At the 95 percent confidence level the HCFA mortality report reveals that in all conditions reported, the EMRMC mortality rate falls well within the predicted range.

Of course, the likelihood of death simply increases as age advances. Therefore, hospitals treating a higher age Medicare population can be expected to have a higher mortality rate than those treating a younger population. It is significant to note that the average age of all Medicare patients treated at EMRMC in Fiscal Year 1990 was 76, which is slightly higher than the average life expectancy in the United States. In Fiscal Year 1990, 64% of mortalities occurring with EMRMC patients within 30 days after admission were patients who were 80 years of age or older.


Although this HCFA data is useful to EMRMC, the medical center's own quality improvement program is effective in identifying ways in which patient care can be enhanced."

Health Care Financing Administration  
March 18, 1992  
Page 2

180048

Please include the above statement of Ephraim McDowell Regional Medical Center in your Spring, 1992 publication of the HCFA Hospital Mortality Data.

Sincerely,

A handwritten signature in cursive script, reading "Thomas W. Smith". The signature is written in dark ink and is positioned above the typed name.

Thomas W. Smith  
President and  
Chief Executive Officer

/sm



MEADOWVIEW  
REGIONAL  
HOSPITAL

March 19, 1992

Gail Wilensky  
Health Care Financing Administration  
6325 Security Boulevard  
Baltimore, MD 21207-5187

Dear Dr. Wilensky:

Meadowview Regional Hospital has made a significant commitment to provide high quality medical care for all residents in our community. In June, 1991, the Joint Commission on the Accreditation of Health Care Organizations acknowledged this commitment to quality after a two day survey by awarding the hospital a full three year accreditation. In January, 1992, the Kentucky Division of Licensing and Regulation from the Cabinet for Human Resources found no deficiencies during their annual review of the hospital's compliance with its quality standards. Over 80% of the hospital's physicians are board certified by their particular specialty boards. The hospital has and will continue to pursue an aggressive quality improvement program to ensure the best medical care possible for the community it serves.

The HCFA Hospital Mortality Report is not an accurate measure of hospital quality. Documented scientific research published in the April 10 issue of the Journal of American Medical Association (JAMA) has demonstrated that some hospitals classified as "high mortality outliers" are biased with a very high proportion of older, chronically ill, high risk patients, many of whom are terminally ill and/or classified in the do not resuscitate category; that is, they or their family have made the decision not to use heroic life saving measures as a part of their care.

Meadowview Regional Hospital has some very unique characteristics. It is the only hospital in the community and has a policy to accept all patients for admission regardless of their health status. The Meadowview Regional Hospital service area is characterized by a very elderly population, many of whom reside in area nursing homes. Thirty-two percent of our service area population is over 65 years of age.

989 West Highway 10  
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Gail Wilensky  
Page 2

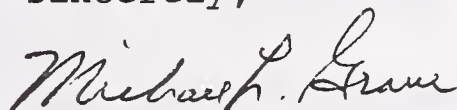
In reviewing the mortality report for Meadowview Regional Hospital, we have determined that the information may be misleading. The hospital's "observed" Medicare mortality rate for patients who die up to 30 days after discharge from the hospital is 12.1%. The hospital's actual Medicare mortality rate for patients dying in the hospital is only 7.7%. The hospital's overall death rate for all patients is 3.1%, and the non-Medicare death rate is less than 1%.

Hospital mortality rates are not, in and of themselves, accurate measures of quality and can be misleading. For example, a detailed analysis of the hospital medical records and death certificates shows that of the six Medicare patients listed in the mortality report who died with a diagnosis of sepsis within 180 days of discharge from Meadowview Regional Hospital, only four died in the hospital. All four of these patients had been admitted from area nursing homes and the decision had been made by them or their family not to resuscitate them. The other two died after discharge from the hospital to area nursing homes, and were also listed as "Do Not Resuscitate."

Another indepth study was done of the three Medicare patients who were reported to have died within 180 days of having gall bladder surgery at Meadowview. Of these three patients, one died of a stroke, another died of renal failure three months after being discharged to an area nursing home, and the other committed suicide about six weeks after discharge from the hospital! It is clear from this analysis that quality of care is not a factor in these patients' deaths. Though it is not feasible given the time frame to respond, to analyze all 911 Medicare patients studied in the report, we feel confident the results would lead to the same conclusion.

In summary, the management and staff of Meadowview Regional Hospital would like to thank the Health Care Financing Administration for this opportunity to respond to the mortality report and encourage the continued improvement of the methodology to prevent potentially misleading and false conclusions by the community which we serve.

Sincerely,



Michael L. Graue  
Chief Executive Officer

sd





## Muhlenberg Community Hospital

P.O. Box 387 / Greenville, Kentucky 42345 / Telephone (502) 338-8000

March 17, 1992

18-0004

Gail R. Wilensky, Ph.D., Administrator  
Health Care Financing Administration  
Medicare Hospital Information  
Bureau of Data Management and Strategy  
Room 3-A-12, Security Office Park Building  
6325 Security Boulevard  
Baltimore, Maryland 21207-5187  
ATTN: Robert Moore

Dear Mr. Moore

As in year's past H.C.F.A. has published data which is extremely confusing for hospital personnel to interpret and especially confusing to the public. In addition, the unrealistic time allotted for hospitals to analyze and respond to the data results in inaccurate data being released by H.C.F.A. The data should be sufficiently analyzed by the hospital for misrepresentations but small facilities such as Muhlenberg Community Hospital without sophisticated computer systems must do this manually.

H.C.F.A.'s data for Muhlenberg Community Hospital (M.C.H.) indicates that persons with acute MI's, CHF, stroke and sepsis die at a rate higher than predicted. The report does not acknowledge the fact that M.C.H. has an attached skilled nursing facility which contributes 50.2% of the hospital's patient days and greatly skews the H.C.F.A. data. The hospital's internal data check shows that of the 238 hospital deaths identified by H.C.F.A., 73 or 31% actually occurred on the skilled nursing facility which is a long term care unit.

Additional analysis reveals that 77 of the 238 deaths occurred outside of the hospital - 9 of these were critical care transfers to other acute care facilities. Of the 238 deaths ascribed to M.C.H., only 51 actually died while being hospitalized at M.C.H. The hospital could only identify 38 of the 238 deaths which occurred within 180 days of discharge from M.C.H.

In our attempt to analyze the data provided for M.C.H., we determined that the H.C.F.A.'s summary data (Enclosure C) is not supported by the detail listing (Enclosure D). An analysis of the variance in the data makes the validity of H.C.F.A.'s data questionable and impossible to verify H.C.F.A.'s published data. The following table shows the variance between the two reports;

*"Moving Toward the 21st Century"*



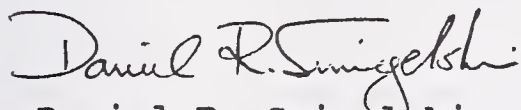
| Deaths From: | Detail Listing | Summary Report | Variance |
|--------------|----------------|----------------|----------|
| -----        | -----          | -----          | -----    |
| MI           | 11             | 18             | 63.6%    |
| CHF          | 27             | 57             | 111.1%   |
| Pneumonia    | 28             | 83             | 196.4%   |
| COPD         | 1              | 19             | 1800.0%  |
| TIA          | 0              | 26             | INF.     |
| Stroke       | 22             | 32             | 45.5%    |
| Hip Fracture | 0              | 3              | INF.     |
| Sepsis       | 3              | 7              | 133.3%   |

The average age of death at M.C.H. according to our records indicate the following: Males = 77 years; Females = 81 years; Overall = 79 years. M.C.H. serves a rural community and an elderly population which tends to be hospitalized more often than the normal urban or suburban youthful population base. Additionally, most specialty and subspecialty acute care is provided in facilities to which M.C.H. transfers patients. As the data shows, 77 of the 238 died elsewhere, either at home or at facilities over which M.C.H. had no control.

If H.C.F.A. would exclude deaths associated with the skilled facility and deaths associated with the transfer of patients because of the hospital's inability to provide the services required, e.g. cardiology and orthopedics, a more accurate picture of mortality at M.C.H. would be presented.

In conclusion, the annual publication of mortality data by H.C.F.A. is an added burden on small hospital's because of the time required to try and analyze and ultimately "justify" the data in the eyes of the public. Thus far this data has not helped improve the quality of services or hospital care, but has added hours of additional cost to an already overburdened system.

Sincerely,



Daniel R. Smigelski  
Chief Executive Officer  
Muhlenberg Community Hospital

DRS:tlg

# REGIONAL MEDICAL CENTER

## MADISONVILLE

Regional Medical Center  
900 Hospital Drive  
Madisonville, Kentucky 42431-1694  
(502) 825-5100

March 18, 1992

Medicare Provider #180093

Gail R. Wilensky, Ph.D., Administration  
Health Care Financing Administration  
Medicare Hospital Information  
Bureau of Data Management and Strategy  
Room 3-A-12, Security Office Park Building  
6325 Security Boulevard  
Baltimore, Maryland 21207-5187

Dear Ms. Wilensky:

This letter is in response to the 1990 HCFA mortality data for Regional Medical Center of Hopkins County (Provider #180093) received by us March 2, 1992.

Regional Medical Center is a 410 bed non-profit, voluntary, full service referral hospital providing care to seriously ill patients from many rural communities in Western Kentucky. This adds to the complexity of diagnosis and treatment provided at our Hospital.

Again this year, the hospital's actual mortality rate in each of the diagnostic and procedure categories remains within the range of predicted mortality. It is important, however, to recognize that these statistics do not measure quality. The model identifies differences in mortality among hospital patient populations, but does not explain why they are different. Much of the difference in hospital mortality, particularly post discharge deaths up to 180 days after care was provided, may be explained by other factors. Only peer review of the actual care provided can indicate whether there is a potential problem with the quality of care provided.

We welcome the mortality data as one screen and one source of information for the hospital's quality assurance program. In conjunction with our multi-specialty medical staff, we have an active quality

Health Care Financing Administration

March 18, 1992


assurance program which is conducted on an ongoing basis. The review of the mortality material you present will become a part of that program. While our quality of care is good, we are nevertheless committed to maintaining and improving our quality through multiple processes.

We hope that HCFA will eventually be able to merge "cause of death" and discharge data bases to provided hospitals with more complete information for their quality review process. It would be particularly relevant to the existing annual data releases since mortality attributed to a hospital may occur as long as 180 days after admission and may not have been related at all to the hospitalization.

We do regret HCFA's change from the familiar reporting format with mortality ranges provided to the new format which may be more easily misunderstood by the casual observer. This problem is particularly evident in the data which have a relatively high standard deviation.

We appreciate the opportunity to comment prior to release of this information. We hope HCFA will continue to improve their analysis of mortality data and will emphasize the fact that mortality data is only one factor in the measurement of quality.

Sincerely,



Bob Dampier, FACHE  
Executive Vice-President/  
Principal Executive Officer

BD/rfs





## St. Anthony Medical Center

1313 St. Anthony Place  
Louisville, Kentucky 40204-1749  
502 627-1000

March 18, 1992

Gail R. Wilensky, Ph.D., Administrator  
Health Care Financing Administration  
Medicare Hospital Information  
Bureau of Data Management and Strategy  
Room 3-A-12, Security Office Park Building  
6325 Security Boulevard  
Baltimore, Maryland 21207-5187

Dear Dr. Wilensky,

We appreciate the opportunity to comment on St. Anthony Medical Center mortality rates for FY 1990, which will be published in Medicare Hospital Mortality Information, June, 1992.

We are pleased that St. Anthony Medical Center statistics fell within predicted ranges for 1990. There has been continuous improvement within our facility, as best shown by the graphic presentation of the three consecutive years. Our primary commitment to providing quality care is also demonstrated by our JCAHO accreditation with commendation and continuous internal quality review activities.

However much we would like to attribute the improved data to continuous improvement of care, we feel confident that the reconciliation between predicted and observed mortality resulted from changes in coding on the UB-82 billing form.

Following publication of the Medicare Hospital Mortality Information in 1991, St. Anthony Medical Center contracted for an independent study of the 1989 data by a reputable health policy analyst. The results showed that "patient characteristics not fully accounted for by HCFA were sufficient to explain SAMC's higher than predicted mortality rate. Some of the characteristics would have been better accounted for by HCFA if data submitted by the hospital had been more accurate, while other patient attributes which significantly contribute to patient outcome are simply not captured in HCFA's database at all."

Examples of factors that are not considered by HCFA but which contribute to a higher predicted mortality include severity of illness and the presence of "do not resuscitate" orders. Many of these factors should be captured with the expanded reporting of comorbidity factor (from 4 to 9) as of October, 1991.





The study also noted that correcting certain inaccuracies in the reported data resulted in "substantial increases in the predicated mortality rates." For example, the data used to calculate the predicted mortality rate greatly understated the number of ER admissions versus physician referrals and extent of chronic illness and co-morbidity in our Medicare population. "These changes were sufficient to eliminate the 'high mortality outlier' designation because after reabstraction, mortality rates were within predicted ranges."

Inherent difficulties are encountered when data collected primarily for billing purposes are used to make judgements regarding quality.

Coding for reimbursement is quite different than capturing information that will accurately predict mortality. By addressing these issues through this study, the medical records department at St. Anthony Medical Center has achieved a much greater understanding of HCFA's mortality statistics and their relationship to the coding of discharge abstracts.

Thank you for the opportunity to preview the information for the 1992 report and to provide these comments in support of St. Anthony Medical Center's position.

Sincerely,

*Sister M. Madonna Rougeau, O.S.F.*  
Sister M. Madonna Rougeau, O.S.F.  
Vice President

cc: Lawrence J. Eul, CEO





# Saint Joseph Hospital

*A Division of the Sisters of Charity of Nazareth Health Corporation*

March 16, 1992

Gail R. Wilensky, Ph.D., Administrator  
Health Care Financing Administration  
Medicare Hospital Information  
Bureau of Data Management and Strategy  
Room 3-A-12, Security Office Park Building  
6325 Security Boulevard  
Baltimore, Maryland 21207-5187  
ATTN: Robert Moore

Dear Mr. Moore:

In response to the Medicare Hospital Information (1992), Saint Joseph Hospital further analyzed the data that was provided. We feel that further analysis is important when looking at these mortality rates.

In Saint Joseph's sample, there were a total of 750 deaths. Of these, 63.2% of the deaths did not occur while the individual was a patient at Saint Joseph Hospital. An age analysis was also conducted. When analyzing the sampled deaths, the average age of the males was 73, and the average age of the females was 77. Of the sampled deaths, 9% of the males were older than 85 and 22% of the females were older than 85. This demonstrates that Saint Joseph Hospital cares for an extremely elderly population. It is well documented that the older the patient, the more severe their medical condition or illness.

Saint Joseph Hospital is a tertiary care facility which serves as a major referral center for central and eastern Kentucky. Severely ill patients are referred to Saint Joseph as indicated by the comorbidities provided by HCFA and our high case mix index. The case mix index at Saint Joseph was 1.6858 in 1990. It is currently 1.82. Additionally, 45.4% of the patients in the sample had chronic cardiovascular disease, 20.2% had chronic pulmonary disease, and 10.8% had cancer. Further evidence that patients referred to Saint Joseph Hospital for treatment are more acutely ill than the typical hospital.

When looking at the graphs in the HCFA information, the mortality data depicts two standard deviations, allowing for a 95% confidence level. Saint Joseph Hospital falls within the range on all conditions and procedures. Information reflecting the standard deviation ranges and Saint Joseph's rate are provided in the attached exhibit. It is recommended that information be provided in this type of format when released to the public.

Sincerely,

William D. Fuchs  
President and CEO

**Our Experience Makes Your Experience Better.<sup>SM</sup>**

*One Saint Joseph Dr., Lexington, KY 40504-3754, (606) 278-3436*





March 18, 1992

Hospital Provider No. 180001

Gail R. Wilensky, Ph.D., Administrator  
Health Care Financing Administration  
Medicare Hospital Information  
Bureau of Data Management and Strategy  
Room 3-A-12, Security Office Park Building  
6325 Security Boulevard  
Baltimore, Maryland 21207-5187

Dear Dr. Wilensky:

St. Luke Hospital East is pleased with HCFA's report confirming that all 1990 Medicare deaths fell within the predicted ranges at 30, 90 and 180 days following admission. We consider this a positive reflection of our continuous quality improvement efforts to assure our patients receive the highest quality of care possible. Quality care is foremost in the minds of our physicians and hospital staff alike, and we devote significant resources to assure this is maintained.

Our Medical Staff, supported by hospital staff members, performs ongoing quality assessment, monitoring and analysis through the following committees: Quality Improvement/Risk Management, Infection Control, Utilization Review, Tissue, Special Care and Diagnostics, Pharmacy and Therapeutics, Ambulatory Care, Medical Records, Credentials, Constitution and Bylaws, Cancer, Medical Ethics, Institutional Review Board, Endoscopy and Laser, Safety, Radiation Safety, Transfusion Review, its Quality Improvement Council, and Medical Department meetings. There are 86 management persons who also engage in ongoing quality assessment and are further aided by numerous employees who check, audit and compile data for use by committees and managers. Data collected, medical records reviewed, and reports generated follow a defined path and are reported on an ongoing basis to the Medical Staff, Administration and the Board of Directors. These reports are also reviewed by surveyors from the State Office of Licensure and Regulation and the Joint Commission on Accreditation of Healthcare Organizations, who ranked our institution within the top 10% of the nation.

St. Luke Hospital East considers HCFA's mortality information of no help to consumers and consumers should not base their purchasing decisions on hospitals morbidity and mortality data. HCFA lists and compares observed (actual) hospital mortality rates against "predicted rates" rather than providing a range that considers patient-specific variables such as condition at time of admission, secondary causes of death, past medical history, psychosocial and economic factors, average age, families requesting that no heroic or resuscitative measures be used in treatment, etc. Using a "sterile figure" alone to compare a hospital's morbidity and mortality rate is misleading and consumers should be cautioned.

HCFA data is based on national statistics limiting the amount of patient information gathered. To gain greater insight, we reviewed each death identified by HCFA where our actual death rate varied from HCFA's predicted rate even though all our death rates were well within predicted ranges. Of all deaths reviewed, we found that 36% died outside of the hospital; 89% were in serious or critical condition upon admission; 30% had cancer as a secondary cause of death; 79% were considered terminal and families requested that no heroic measures be used in treatment, and the average age of the deceased within the HCFA

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categories was 79.3 years. Had HCFA considered all 4,624 Medicare admissions for 1990, our actual mortality rate within 180 days of admission would be 9.6% rather than the 18.4% listed. The above facts are nowhere present in the data.

During the intensified study of HCFA's reported deaths for these categories where our actual deaths varied from HCFA's predicted rate, the following facts were noted:

Acute Myocardial Infarction - (1) 96% were admitted in serious or critical condition. (2) Families requested no heroic or resuscitative measures in 65% of the deaths with most decisions occurring at time of admission. (3) Average age - 78 years. (4) With one exception, all had multiple other serious complications as cancer, congestive heart failure, and chronic obstructive pulmonary disease.

Congestive Heart Failure - (1) All were in serious or critical condition upon admission with two deaths on arrival to the Emergency Department. (2) In 67% of the deaths, families requested no heroic measures be used in treatment. (3) Average age - 80 years. (4) All had life-threatening other conditions such as respiratory failure, chronic gastrointestinal bleeding, endocarditis, and kidney failure.

Transient Cerebral Ischemia - (1) Two of the three deaths in this category were comatose on admission, one of whom died in the Emergency Room after unsuccessful resuscitative measures. (2) All had serious co-existing life-threatening complications including previous strokes, cardiac disease and hypertension. (3) Average age - 74 years.

Stroke - (1) 71% were admitted in serious or critical condition. (2) In 88% of the deaths reviewed, families requested no heroic or resuscitative measures be used in treatment. (3) Average age - 81 years. (4) The majority of these deaths had other terminal conditions such as rectal cancer, chronic pulmonary disease, chronic heart disease and multiple myocardial infarctions (heart attacks).

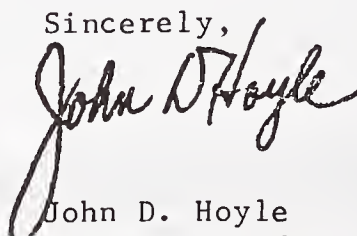
Initial Pacemaker Insertion - (1) Only two patients died within 180 days following the procedure. (2) One patient was critical upon admission and the family wished no resuscitative measures. (3) Average age - 82 years. (4) Both had serious other complications including coronary artery disease, congestive heart failure and long history of rheumatic heart disease.

Prostatectomy - (1) Only one death occurred within 180 days following a prostatectomy procedure. (2) Patient was admitted in serious condition, had multiple life-threatening unrelated conditions including severe chronic obstructive pulmonary disease, congestive heart failure and coronary artery disease. (3) Cause of death was unrelated to the prostatectomy, but followed a flare-up of the patient's terminal pulmonary disease.

Hip Replacement/Reconstruction - (1) All had serious other complications, with two of the three patients suffering from past strokes with paralysis. (2) Average age - 78 years.

Finally, of those deaths HCFA could not assign to a category, we noted the following: (1) 91% were admitted in serious or critical condition. (2) 86% requested no heroic measures. (3) 94% had other terminal medical conditions including extreme bowel gangrene, kidney and respiratory failure, and end-stage heart and liver disease. (4) 44% suffered from cancer.

Sincerely,



John D. Hoyle  
President and CEO





March 18, 1992

Hospital Provider No. 180045

Gail R. Wilensky, Ph.D., Administrator  
Health Care Financing Administration  
Medicare Hospital Information  
Bureau of Data Management and Strategy  
Room 3-A-12, Security Office Park Building  
6325 Security Boulevard  
Baltimore, Maryland 21207-5187

Dear Dr. Wilensky:

St. Luke Hospital West is pleased with HCFA's report confirming that all 1990 Medicare deaths fell within - most below - the predicted ranges at 30, 90 and 180 days following admission. We consider this a positive reflection of our continuous quality improvement efforts to assure our patients receive the highest quality of care possible. Quality care is foremost in the minds of our physicians and hospital staff alike, and we devote significant resources to assure this is maintained.

Our Medical Staff, supported by hospital staff members, performs ongoing quality assessment, monitoring and analysis through the following committees: Quality Improvement/Risk Management, Infection Control, Utilization Review, Tissue, Special Care and Diagnostics, Pharmacy and Therapeutics, Ambulatory Care, Medical Records, Credentials, Constitution and Bylaws, Cancer, Medical Ethics, Institutional Review Board, Endoscopy and Laser, Safety, Radiation Safety, Transfusion Review, its Quality Improvement Council, and Medical Department meetings. There are 44 management persons who also engage in ongoing quality assessment and are further aided by numerous employees who check, audit and compile data for use by committees and managers. Data collected, medical records reviewed, and reports generated follow a defined path and are reported on an ongoing basis to the Medical Staff, Administration and the Board of Directors. These reports are also reviewed by surveyors from the State Office of Licensure and Regulation and the Joint Commission on Accreditation of Healthcare Organizations.

Despite the fact that most of our death rates were well below HCFA's prediction, St. Luke Hospital West considers HCFA's mortality information of no help to consumers and consumers should not base their purchasing decisions on hospitals morbidity and mortality data. HCFA lists and compares observed (actual) hospital mortality rates against "predicted rates" rather than providing a range that considers patient-specific variables such as condition at time of admission, secondary causes of death, past medical history, psychosocial and economic factors, average age, families requesting that no heroic or resuscitative measures be used in treatment, etc. Using a "sterile figure" alone to compare a hospital's morbidity and mortality rate is misleading and consumers should be cautioned.

HCFA data is based on national statistics limiting the amount of patient information gathered. To gain greater insight, we reviewed each death identified by HCFA where our actual death rate varied from HCFA's predicted rate even though all our death rates were



well within predicted ranges. Of all deaths reviewed, we found that 29% died outside of the hospital; 67% were in serious or critical condition upon admission; 18% had cancer as a secondary cause of death; 81% were considered terminal and families requested that no heroic measures be used in treatment, and the average age of the deceased within the HCFA categories was 76.4 years. Had HCFA considered all 2,444 Medicare admissions for 1990, our actual mortality rate within 180 days of admission would be 9.1% rather than the 15.6% listed. The above facts are nowhere present in the data.

As part of our continuous quality improvement program, we routinely investigate all deaths. For those Medicare deaths which occurred during the 1990 Federal fiscal year, the following facts were noted:

Acute Myocardial Infarction - (1) 71% were admitted in serious or critical condition. (2) 86% were terminal and the family requested no heroic or resuscitative measures be used in treatment. (3) Average age - 77 years. (4) All had other serious complications including stroke, pulmonary edema and congestive heart failure.

Congestive Heart Failure - (1) 75% were in serious or critical condition upon admission. (2) In 63% of the deaths, families requested no heroic measures be used. (3) Average age - 73 years. (4) All had life-threatening complications such as cancer, kidney failure and chronic obstructive pulmonary disease.

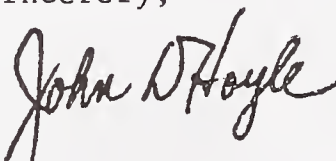
Pneumonia/Influenza - (1) 73% were serious or critical. (2) Families requested no heroic measures in 91% of the deaths. (3) Average age - 76 years. (4) In each case the patients suffered from a multiple of other co-existing terminal conditions including cancer with metastasis, end-stage pulmonary disease, congestive heart failure and coronary artery disease.

Chronic Obstructive Pulmonary Disease - (1) Half were serious or critical upon admission and families requested no resuscitative efforts. (2) Most had other terminal conditions such as rectal cancer, lung cancer, heart failure and pulmonary edema. (3) Most were in the end stages of their disease upon arrival to the hospital. (4) Average age - 66 years.

Stroke - (1) In 75% of the deaths, patients and/or families requested no heroic measures be used in treatment. (2) Average age - 81 years. (3) With one exception, all patients suffered from multiple other serious conditions including congestive heart failure, cancer, arteriosclerotic heart disease, small bowel obstruction and chronic obstructive pulmonary disease.

Finally, of those deaths HCFA could not assign to a category, we noted the following: (1) 86% had very poor prognoses and families did not wish resuscitative efforts. (2) 71% were admitted in serious or critical condition. (3) Average age - 76.4 years. (4) 20% had cancer, 14% had severe gastrointestinal bleeding, 61% had terminal gangrene and the remainder had other serious complications which included diabetic coma, kidney failure, pulmonary edema and respiratory failure.

Sincerely,

  
John D. Hoyle  
President and CEO

March 17, 1992

Hospital #180037

Gail R. Wilensky, Ph.D., Administrator  
Health Care Financing Administration  
Medicare Hospital Information  
Bureau of Data Management and Strategy  
Room 3-A-12, Security Office Park Building  
6325 Security Blvd  
Baltimore, Maryland 21207-5187

Attention: Robert Moore

Dear Mr. Moore:

We request this supplemental information be included with the Medicare Hospital Mortality Report covering Fiscal Year 1990 for Saints Mary & Elizabeth Hospital, Louisville, Kentucky.

The section on Hospital Characteristics should be corrected as follows: 1. Total beds-331; 2. Occupancy rate-47.7%; 3. Total number of physicians-477; 4. Percent of physicians board certified specialists-78%; 5. Registered Nurses-198; 6. Licensed Practical Nurses-37; 7. Medicare discharges-52.9%; and, 8. Case Mix Index-1.3210.

HFCA's mortality rate chart lists 2,633 total Medicare cases for Saints Mary & Elizabeth Hospital during HCFA's fiscal year 1990. Our figures reflect **4,035** Medicare discharges during the same period. We were unable to reconcile these figures. With this significant discrepancy in reporting, the observed/reported mortality rate becomes a somewhat questionable figure. Our monitoring and statistics regarding in-house mortalities find 292 cases with our rate for all causes to have been 7.2%. Further, we find it quite impossible to do an accurate follow-up on all cases reported as having died within 180 days of the discharge. We also find that rather than extending the reportable date of death to 180 days beyond the discharge date in your report in most cases, if there was a subsequent admission, the 180 day time interval was calculated from that date. This, again, is invalid for comparison purposes. Using your number of Medicare cases and your observed and predicted mortality rates with your multiplicative tables to adjust for skewness and kurtosis, ***our mortality rate for all causes falls within the projected range at the 99% confidence level at 30 days, 90 days and 180 days.***

It is relevant to note that our records indicate that 55 of the reported deaths occurred while the patient was in the Emergency Room; 75 in-house deaths occurred within 48 hours of admission. 226 patients were designated as "Do Not Resuscitate" during this time frame.

In analyzing the section on eight separate conditions and nine separate procedures, we find there is considerable overlap of patients, (and thus mortality) in the areas of hip fracture, hip replacement/reconstruction, and open reduction of hip fracture. We feel this yields an erroneous standardized mortality ratio (SMR) at 30 days. We are concerned, therefore, that this reported "group" may not be statistically significant.

Using your observed and predicted mortality rates and applying multiplicative factors from your Table A-4, we calculated expected mortality ranges for all conditions and procedures listed. The ranges for initial pacemaker insertion, carotid endarterectomy, hip replacement/reconstruction, and open reduction of hip fracture, where the total number of cases was not sufficient to formulate a standard deviation, could not be calculated. In all cases, our observed mortality rate fell within the range at the 95% confidence interval at 30, 90, and 180 days.



**Hospital #180037**  
**Mortality Range (Using HCFA Multiplicative Factors) - 95% Confidence Level**

| Condition/Procedure     | 30 Days        | 90 Days        | 180 Days       |
|-------------------------|----------------|----------------|----------------|
| Acute MI                | 3.2% ←→ 39.8%  | 6.2% ←→ 43.4%  | 9.5% ←→ 45.5%  |
| CHF                     | 4.55% ←→ 24.2% | 9.36% ←→ 35.9% | 19.8% ←→ 40.4% |
| Pneumonia               | 6.7% ←→ 20.44% | 10.1% ←→ 27.7% | 11.28 ←→ 38.6% |
| COPD                    | 0% ←→ 8.6%     | 0.2% ←→ 15.8%  | 3.9% ←→ 19.5%  |
| TIA                     | 0% ←→ 4.99%    | 0% ←→ 9.65%    | 0% ←→ 13.9%    |
| Stroke                  | 3.4% ←→ 27.7%  | 4.2% ←→ 37.5%  | 7.1% ←→ 41.6%  |
| Hip Fracture            | 0% ←→ 16.8%    | 1.0% ←→ 21%    | 3.25 ←→ 25.2%  |
| Sepsis*                 |                |                |                |
| Initial Pacemaker*      |                |                |                |
| Carotid Endarterectomy* |                |                |                |
| Hip Replacement*        |                |                |                |
| Open Reduction Hip*     |                |                |                |
| Prostatectomy           | 0% ←→ 5.1%     | 0% ←→ 11.4%    | 0% ←→ 16.2%    |
| Cholecystectomy         | 0% ←→ 7.7%     | 0% ←→ 11.6%    | 0% ←→ 13.9%    |

\* Too small for SD: could not calculate.

Our overall hospital mortality rate in Fiscal 1990 was 4.6%, which is essentially unchanged during the past five years. We have strong quality assurance and utilization management programs. Appropriate medical staff committees evaluate the results of all of our on-going monitors, which include review of all deaths. All quality assurance reports, including HFCA's mortality data, are reviewed by medical staff committees, hospital administration, and the hospital board of directors' Quality Care Committee. We will continue our analysis of the HFCA mortality report to determine whether any true quality issues are identified. The short time interval of less than 20 days for response did not provide time for thorough analysis of our report and construction of a reply to same: additional allotment of time for future responses would be appreciated. We continue to cooperate fully with our medical peer review organization. Finally, we do appreciate the opportunity to respond to this year's HFCA Hospital Mortality Report.

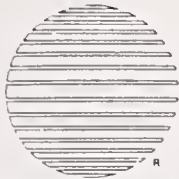
Sincerely,



Steven C. Bjelich  
Executive Vice President  
Chief Operating Officer

RJ/ba:mdn  
hcla.rj





**Jewish  
Hospital  
Shelbyville**

Medicare Provider No: 180016

March 19, 1992

Gail R. Wilensky, Ph.D., Administrator  
Health Care Financing Administration  
Medicare Hospital Information  
Bureau of Data Management and Strategy  
Room 3-A-12, Security Office Park Building  
6325 Security Boulevard  
Baltimore, Maryland 21207-5187  
ATTN: Robert Moore

Dear Ms. Wilensky:

Thank you for the opportunity to respond to the Medicare hospital mortality information prepared by HCFA. Jewish Hospital Shelbyville supports the Health Care Financing Administration's efforts to improve the effectiveness of medical practice and the quality of care provided to Medicare beneficiaries. We appreciate your continued efforts to make refinements so that institutions may use the information as a valuable educational tool.

It is the intent of this hospital to provide the highest possible standard of care to our community. As a part of our hospital's Quality Improvement Program, the screening and close scrutiny of all mortalities within the hospital is an ongoing process involving numerous indicators developed by our medical staff to monitor performance against acceptable standards of care.

In response to the data provided from HCFA, this hospital's mortality rates and numbers of cases continue to be too small to permit satisfactory estimation of the standard deviation with the exception of "All Cases" and the condition of "Pneumonia/Influenza." The findings of 1990 data remain similar to prior years.

Although clinical detail is included in the model of predicted probability of death, available data may not measure patient characteristics that could impact the expected mortality. While the model identifies differences in mortality among patient populations, it does not help explain why there are differences, particularly for deaths occurring after the patient leaves the

Gail R. Wilensky, Ph.D., Administrator  
March 19, 1992  
Page 2

Medicare Provider No: 180016

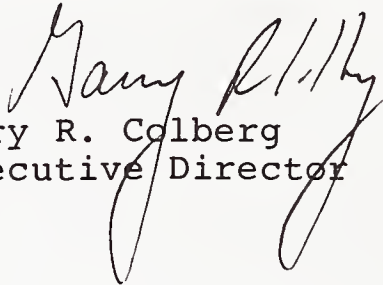
hospital. The information is useful to Administration and clinicians in healthcare, but it's usefulness or appropriateness for the public to use as a guide to hospital performance remains questionable.

Again, thank you for this opportunity to respond.

Sincerely yours,



William Powers, M.D.  
Chairman, Professional Review Committee



Gary R. Colberg  
Executive Director









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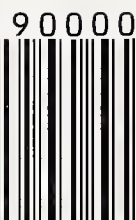


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